

AMERICAN ARTISAN

January 1961

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• Sheet Metal Contracting

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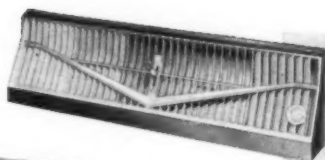
Perimeter Air Dis-
tribution System
for Restaurant
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COMPLETENESS...
Progressively Engineered!

Air Control

THE NAME TO LOOK FOR IN REGISTERS, GRILLES, DIFFUSERS



NEW "SUPER 38" PERIMETER DIFFUSER
18" long. BIG 38 inches free area. Rugged High Impact Polystyrene face. Wide spread diffusing air pattern. Decorator styling. 2-tone beige finish.



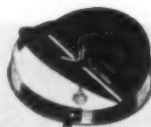
NO. 20 SERIES REGISTERS AND GRILLES
Sidewall or baseboard. 4-way control of air pattern. Positive, easy Adjusto-Stop balancing at register face. 2-tone beige finish. Full range of sizes.



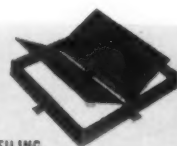
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30% to 50% greater free area. Decorator styling. 2" width Air Flow rings deflect air along ceiling with minimum resistance. Wide outer "anti-smudge" ring. Sponge rubber gasket. Satin beige prime coat finish. Many sizes and styles.



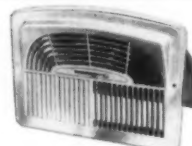
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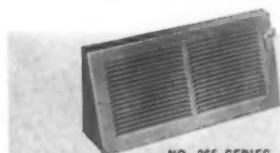
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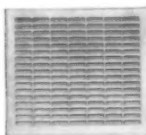
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Compact. Exclusive "Air-Sweep" styling. Big 34 sq. in. free area. Factory-set fins at 4 different angles. Adjusto-Stop on damper for easy balancing at face. 2-tone beige or chrome plated finish. Many sizes.



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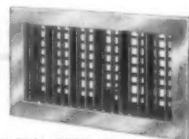
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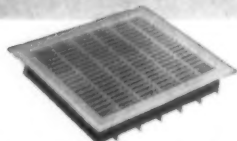
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Low cost. Exceptionally large free area. One piece heavy gauge steel construction. Metalescent or beige prime coat finish. Many sizes.



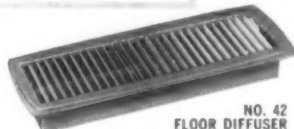
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MODEL J



MODEL H



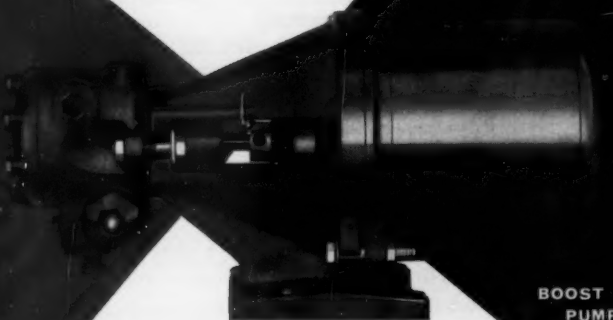
MODEL OB



MODEL E



MODEL PB



BOOST
PUMP

SUNDSTRAND FUEL UNITS and Sundstrand certified service—original quality backed by expert, factory-trained service specialists—your guarantee of reliability and customer satisfaction, year after year.

There is a Sundstrand fuel unit for every heating need:

Model J Single-Stage Fuel Units for light oil. Capacities 3, 6, 10, 14, and 20 gph. Unit includes pump, strainer, and combination regulating cut-off valve.

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Note: Capacities stated above based on operation at 1750 rpm. Light oil fuel units and pumps also available for speeds to 3600 rpm.

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AMERICAN ARTISAN

- Warm Air Heating • Sheet Metal Contracting
- Air Conditioning • Ventilation And Dust Removal

JANUARY 1961

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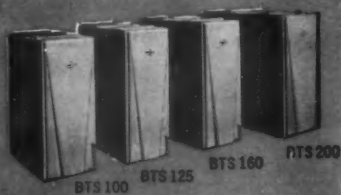


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OIL FIRED BASEMENT

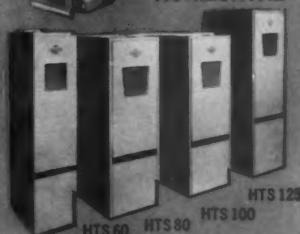


NMS 70
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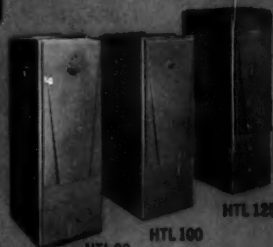
GAS FIRED HORIZONTAL



OIL FIRED HORIZONTAL
\$85 \$100 \$125 \$150
\$200 \$250 \$325



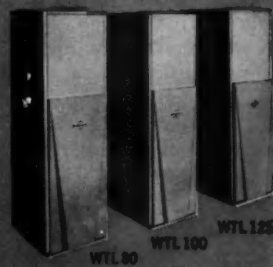
GAS FIRED HI-BOYS



OIL FIRED HI-BOYS

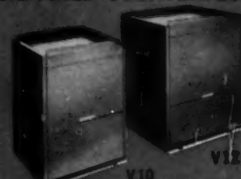


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OIL FIRED COUNTERFLOWS

GAS FIRED UNIT HEATERS
(7 SIZES)



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HEATING • COOLING

HI-BOY UNITS

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UNIT HEATERS

the editor's notebook

Thumbing Through This Month's Artisan

...we find a sheet metal contractor who has devised a system of applying overhead cost to productive labor in a realistic approach to costs. Understanding the relationship of productive labor to the cost of doing business is one of the most valuable bookkeeping and job-estimating tools that can be used to improve the financial side of business management. This sheet metal contractor believes that the amount of productive labor (as a percentage) for a given volume of business is a more accurate measure of the cost of doing business than is the application of a percentage figure that is based on an overall annual volume of business. By applying the cost of doing business (overhead) to the productive labor that will be required for a particular job, bidding is thus more realistic, according to Ted Kuck, who explains this point of view in *Where Do You Apply Operating Costs?* The article gives examples showing how the correct use of productive labor can keep a dealer-contractor from either under- or over-bidding jobs. The article also describes a wide variety of specialty job orders the Kuck Co. gets from customers who know that charges are put on an individual basis, and are not the result of rough averages that put all jobs in the same cost category.

Specifications

...called for roof location of heating and cooling equipment in a shopping center. The variety of retail

GUARANTEED
...not for 5 years, not for 10 years
...not for 15 or 20 years, but

**UNCONDITIONALLY
GUARANTEED**



...FOR LIFE!

Leph-Air

Leph-Air is the gas furnace with the cast-iron heart. The entire heating element is unconditionally guaranteed — for LIFE! A limited number of exclusive franchises protect our dealer — and we assist them with many kinds of dealer help. Write today to see if a franchise is open for you. We'll give you the details you need and want — no obligation, of course. We'll also be pleased to furnish complete information on our conditioning units for use with our heating equipment.

XXTH CENTURY

HEATING & VENTILATING CO.

96 IRA AVE. Since 1894 AKRON, OHIO

the editor's notebook

(Continued)

stores in the shopping center called for equipment that could meet the heating-cooling requirements of the various applications. Packaged heat pumps were used to meet these requirements. *How Heat Pumps Were Installed In a Shopping Center* describes how the roof installation was made, where the roof's construction made it necessary to install the heat pumps on special wooden trusses. The details of design conditions and air distribution are also given.

Standards

...cards for rating heating-cooling systems and check-lists for providing data on the condition of existing equipment have been found particularly helpful to a dealer-contractor in a small town. Chief reason is that the Standards cards and check-lists answered the need for specific and practically self-explanatory literature to use in getting sales leads through mailings to selected prospects. *Check-Lists and Standards Cards Prove to Be His Best Sales Aids* describes how returned check-lists are processed by the firm, and how they are used in follow-up sales presentations to interested prospects.

Special

...installation techniques are often required when installing heating-cooling equipment in a restaurant. Abnormal heat loads during hot summer months, the tendency of dining areas to be drafty, the large amount of heat generated by cooking equipment in the kitchen, and large glass areas that can eas-

ALCO *the one complete line of* REFRIGERANT CONTROLS

Thermo® EXPANSION VALVES for all refrigerants from 1/4 to 200 tons



FOR AIR CONDITIONING
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SOLENOID VALVES

Sizes & Type for every application and refrigerant



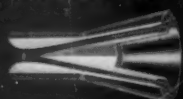
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Venturi-Flow DISTRIBUTORS

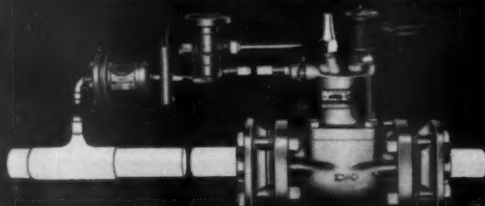
wide application . . . low
pressure drop . . . any
position . . . one-piece
construction . . . no nozzles



Float
SWITCHES
for trouble
free liquid
level control

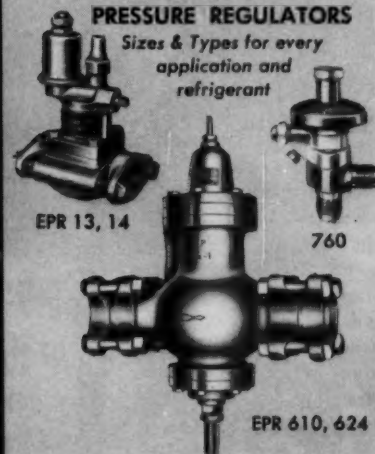
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P.O.S. PILOT OPERATED THERMO® VALVE
with integral solenoid stop . . . for larger installations



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application and
refrigerant



REFRIGERANT FILTER-DRIER

97% pure Dessicant
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and Molecular Sieve



ADK

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the one complete line designed and
engineered for efficient trouble free
performance.



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Refrigerant Filter-Driers • Suction Line Regulators • Flooded Evaporator Controls and Reversing Valves

8217-2

the editor's notebook

(Continued)

ily fog or cause chilled air to fall on patrons are some of the problems that the dealer-contractor has to handle. *Here's How Special Heating-Cooling Requirements of Restaurant Were Met* gives a detailed account of how a dealer-contractor selected and installed equipment to solve these problems. Many exact dimensions and installation details are provided so that the reader can readily make comparisons with similar problems he has handled.

Improvements

...in installation details often account for many saved man-hours of labor over a period of time. One such improvement is a special slip cleat devised by a sheet metal contractor that not only saves a lot of time at the job site — where it often counts most—but gives added rigidity to duct joints. *Fabrication and Erection Are Speeded by Special Slip Cleat* has a number of scaled drawings showing both the blanks for different types of slip cleats, and how the cleat's components are fastened to ductwork and joined together. Enough details are given in the article to show the reader how to fabricate the cleats, and where to best use the different types.

Directory

... of industry products has been brought up to date in the 1961 *Directory of Residential Air Conditioning, Warm Air Heating and Sheet Metal Products*. The 163 page section (yellow pages) contains a complete listing of manufacturers'

GALVAN

... best elbows under ANY ROOF!

GALVAN ELBOWS



- Machine-tapered ends for perfect fit
- Hot dipped galvanized after forming, also made from galvanized sheet

GALVAN CUTOFFS



- Lock - Seamed joints.
- Locking Lever stays put

GALVAN FUNNELS



- "Tite-Top" means no water overflow
- Dirt and leaves cannot enter the system.

ASK YOUR JOBBER FOR

GALVAN
ROOF DRAINAGE
products

Available in:

- ALL STYLES
- ALL SIZES
- ALL METALS

GALVAN

MANUFACTURING CO.

BOX 267

NEW ALBANY, IND.

the editor's notebook

(Continued)

names and addresses, trade names and products advertised in this issue, plus alphabetical classification of all the industry's products and the manufacturers of each.

Show

... section with its complete listing of exhibitors at the 15th International Heating and Air Conditioning Exposition is covered in *Preview of Chicago Show*. A two-page floor plan of the big International Amphitheater, with an additional four pages of exhibitors and their booth numbers, has been carefully prepared to help you get the most out of your time. Also included is a schedule of events and suggestions for the use of public transportation.

These Are Features Home Buyers Want

IT WAS INTERESTING to review the characteristics of new single family houses for which FHA mortgages had been issued during 1959 and 1960. These housing characteristics provide a basis for determining the preferences of people buying homes and the types of heating and air conditioning equipment required to make them comfortable. The FHA data also points out the financial status of the buyers and offers clues to their purchasing power.

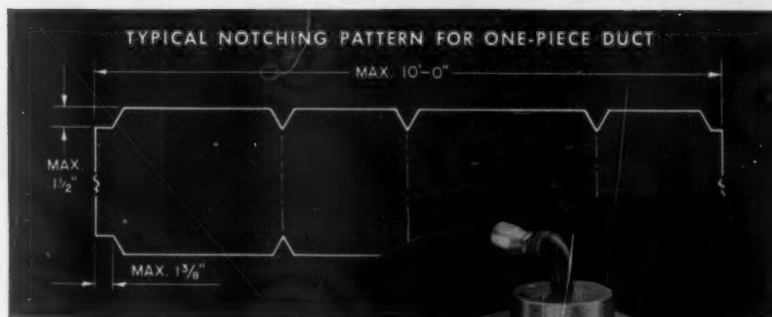
Here is some of the information reported on the houses:

1 or 1½ stories	90%
2 stories or more	5%
Split level	5%
Full basement	28%
Part basement	6%



notch up to 600% faster than by hand
with **LOCKFORMER'S** new **SPEEDNOTCH**

gangnotch
sheet metal
hydraulically
without
layout or
scribing...



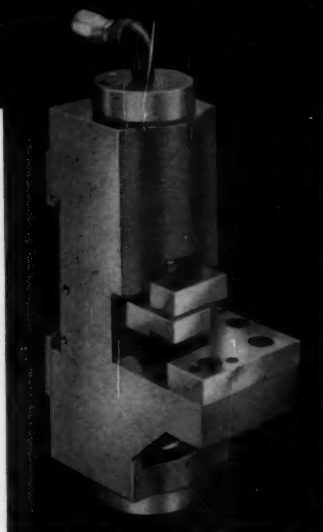
SPEEDNOTCH—the perfect tool for preparing ductwork to receive government cup clip (pocket lock), bar, slip or "S" and drive connections. Instantaneous setting for up to 5 notches in pieces up to 16 gauge mild steel with 3 1/2" to 10' stretchout. Speednotching is profitable even on a single-piece set-up.

Lockformer's new Speednotch is completely self-contained with 5 sets of punches, dies and holders, hydraulic pump with adjustable pressure setting control, 8-gallon reservoir and "quick-disconnect" fittings for individual punch unit control.

Drop us a line for full details and specifications.

Equipped with three 40° vee notches and two 115° corner notches. High carbon, high chrome tool steel punches and dies. Notch depth 1 1/2" maximum; adjustable for less depth when required.

Left corner notch shown at right.



See it in action at the International Heating & Air Conditioning Exposition, February 13-16, International Amphitheatre, Chicago.

manufactured by
THE LOCKFORMER COMPANY

Dept. A 4615 West Roosevelt Road, Chicago 50, Illinois
In Canada: Brown Boggs Foundry & Machine Co., Ltd., Hamilton, Ont.



the editor's notebook

(Continued)

Slab on ground 42%
Crawl space 24%

2 bedrooms or less 5%
3 bedrooms 89%
4 or more 6%

Family income of home buyers:

Less than \$4000 2%
\$4000 to \$4999 6%
5000 to 5999 14%
6000 to 6999 19%
7000 to 7999 17%
8000 to 8999 14%
9000 to 9999 10%
10,000 to 11,999 11%
12,000 to 14,999 5%
15,000 and over 2%

Total acquisition cost of houses:

\$8000 to \$9999 4%
10,000 to 11,999 16.5%
12,000 to 13,999 25%
14,000 to 15,999 24%
16,000 to 17,999 16%
18,000 to 19,999 8%
20,000 to 24,999 6%
25,000 and over 0.5%

Here's Sure Way to Get Long, Steady Vacation

NOT LONG AGO I attended the completion ceremonies for 63 apprentices of Local 73 serving Chicago and Cook County. Among the many fine speakers was Wm. J. Perkinson, a contractor who has spent his entire life in the sheet metal industry. One thing Bill told the new journeymen was: "To the man who loves his work, life is a long vacation."

Provocative Thought

Each time I recall this slogan, I see new values in the concept. It is a provocative thought which a young man would do well to weigh carefully to help him develop a good attitude toward his work and enjoy the benefits it makes possible.

Safe...Convenient
...Dependable
OUTSIDE LIGHTING

**MODERN
LIGHTER TUBE**

for your
gas fired
appliances

featuring
"push-button"
pilot lighting

Designed for the manufacturer to become part of original equipment on all makes and models... the Modern Lighter Tube, with "push-button" pilot lighting from the outside, enables your unit to be completely safe and free from sometimes hazardous lighting practices.

The Modern Lighter Tube carries further and burns more evenly with a minimum of pressure and with any type of gas...

ATTENTION MANUFACTURERS OF SECTIONAL TYPE BURNERS

Now... Modern Lighters, Inc. has available the "Modern Carry-Over Tube" for integral lighting of sections. Engineered by you to fit your product. Complete details and engineering samples available.

**MODERN
LIGHTERS,
INC.**

South Lyon, Michigan

WRITE FOR
LITERATURE



the editor's notebook

(Continued)

Finds Way to Reach New Heating Prospects

IT ALWAYS PLEASES ME to learn about specific cases where dealer-contractors have taken advantage of sales promotion opportunities that have been passed up by their competitors, because I feel the buying public needs to see frequent reminders of the services offered by our industry.

Recently, Michael A. Devino, the Devino Heat Corp., Waterbury, Conn., found a way to reach every customer of the Connecticut Light and Power Co. office serving his marketing area. He prepared a full page article — with photographs — for the consumer mailing piece mailed out to the light and power company's customers.

Article Tells History

The article briefly describes the history of the Devino Heat Co., tells about its services to the public and discusses its 35 years' experience in the installation of warm air heating systems in the Waterbury area. It plays up the facts that the company has a large, well-equipped sheet metal shop and that a complete stock of heating and air conditioning equipment is stored in its large warehouse.

The article closes with an offer to bring the Devino demonstration system to a prospect's home. The demonstration system is mounted on an 18 ft open truck bed and includes a full size furnace and air distribution system that is operated from a nearby power supply. Also displayed on the truck (beneath the ductwork) are components of the furnace and air distribution systems. These include a heat exchanger,



FAST* That's the kind of **service** everyone wants. It's promised universally... given seldom. Notable exception in the heating and air conditioning field: **Round Oak**. When we promise delivery or service, count on it. Just like you can count on the quality of **Round Oak** products.

ROUND OAK DIVISION **PEERLESS CORPORATION** 1853 Ludlow, Indianapolis, Indiana



*** NOW** 4 LOCATIONS TO BETTER SERVE THE GROWING FAMILY OF ROUND OAK CUSTOMERS
INDIANAPOLIS, IND. | DOWAGIAC, MICH. | ATLANTA, GA. | TAMPA, FLA.

the editor's notebook

(Continued)

combustion chamber, blower, duct section, takeoff fittings and diffusers.

Dealer Complimented

A comment by the editor of the brochure reads:

"Knowing, liking, and working for the benefit and progress of the heating equipment field has been largely responsible for Mike Devino's holding the distinction of being the oldest heating company in Connecticut. The dominating factor and driving force behind this success is the attitude of Mike Devino and his employees. They like the heating business, and they like contributing to the comfort of homeowners."

Mr. Devino reports that this item has resulted in many compliments from his old customers and has provided leads from many prospective customers.

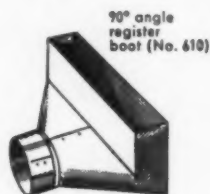
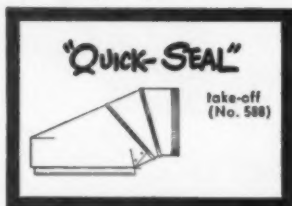
Too Many Employees Get Undeserved Raises

WHAT HAS BEEN your policy in regard to granting salary increases to those not covered by union agreements? Do you do it January 1 each year, or on some other pre-selected annual date? This practice isn't considered the best policy for management because merit ratings and salary review should be staggered and fall on employees' service anniversaries. Where all employees are rated at the same time, 85 percent receive raises. Though many don't deserve them, they get raises anyway. Anniversary reviews cut wage increases to 65 percent. For a bulletin giving nine basic steps in a company merit rating program, request "Steps in Merit Rating" from Industrial Psychology, Inc., 515 Madison Ave., New York 22.

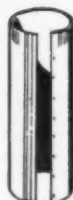
FINISH THE JOB FASTER... FINISH IT BETTER WITH CHAMPION "QUICK-SEAL" FITTINGS, DUCT AND PIPE



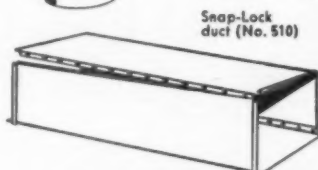
Champion's precision-made Quick-Seal fittings lock firmly and securely into place without air leakage. You get a top-quality job with far less labor cost . . . far more efficiency and customer satisfaction!



90° 4-piece adjustable elbow



Snap-Lock pipe



Champion is stocked by leading wholesalers.



120 MORTON ST.

PEORIA, ILLINOIS

the editor's notebook

(Continued)

Self-Confidence Mark Of Success, SBA Says

TO REACH a business goal, a businessman must have confidence in himself. The Small Business Administration's Aid 46 says that the successful manager must conquer — or at least subdue — his fears. To lead, he must first develop real self-confidence, not just the apparent confidence of those individuals who seem to be relaxed, poised and confident, but are in fact none of these.

"Without question," SBA says, "in some circumstances fear can be the trigger to great achievement. A recent survey showed that some men in top positions in American business were apparently literally whipped to the top by inner fears and feelings of insecurity. But such men, even though 'successful' in business, are often quite unsuccessful as human beings."

Basic Business Rule

Confidence must be built upon a solid foundation and only through a thorough study of one's real objectives and the best methods of reaching them can a person improve his ability and confidence in himself. The basic rule of good business management is to give full value for each dollar spent by the customer, to be fair with everyone who comes in contact with the business.

Next month we'll suggest one technique a businessman can use to help him develop one of the most important of the qualities needed by a successful manager.

Clyde M. Barnes

Editor

WILLIAMSON

**HAS
QUITE
A
CASE!**



THE WILLIAMSON COMPANY • CINCINNATI, OHIO



HODGEPODGE

SIMPLIFIED INVENTORY is one of the big reasons it pays to standardize on Honeywell matched controls. You don't have to stock a hodgepodge of controls that complicate your inventory procedures. There's a quality Honeywell control and an All-Honeywell control system for every application.

And look what else you get! **CUSTOMER RECOGNITION**—seventy-six years of leadership have made Honeywell a name they know and respect. **UNDIVIDED RESPONSIBILITY**—you'll look to one dependable source for your complete line of controls. **ON-THE-SPOT SERVICE**—with offices in 112 cities, staffed by experienced sales and

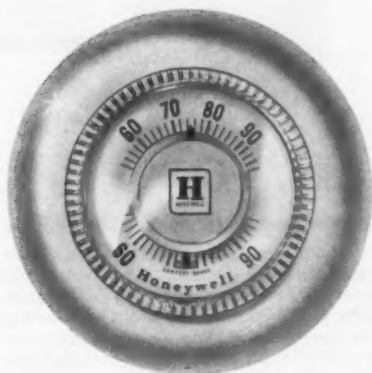
service engineers, you'll always have expert assistance and the right replacement controls when you need them. **TRAINING SCHOOLS**—your service and installation men increase their knowledge of the Honeywell line and get the latest information on automatic controls at Honeywell training schools held in your own town or area. Over 100,000 men attend these schools every year.

It all adds up to fewer headaches, bigger profits for you. So call your nearby Honeywell office today. Or write Honeywell, Dept. AA-1-18, Minneapolis 8, Minnesota. In Canada, write Honeywell Controls, Limited, Toronto 17, Ontario.

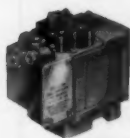
*HONEYWELL INTERNATIONAL Sales and service offices in all principal cities of the world.
Manufacturing in United States, United Kingdom, Canada, Netherlands, Germany, France, Japan.*



OR HONEYWELL?



THE HONEYWELL ROUND sets the standard for thermostat excellence, just as the four controls at the right are typical of the quality controls that make up All-Honeywell systems. Whatever your application—forced air, hydronics, gas or oil—there's an All-Honeywell control system that will do the job best!



V 81
Gas Valve



L 498B
Fan Limit Control



RA 816
Oil Burner Relay



L 8024
Aquastat*

Honeywell



First in Control
SINCE 1885

* Trademark

2 QUICK STEPS TO JOB SATISFACTION

...with MILCOR LOCK-JOINT
FURNACE PIPE



Click... and seams are locked!

Easiest-locking seam on the market. Clicks together with little more than finger-touch pressure. You assemble all the joints you need for the job with minimum time and effort.

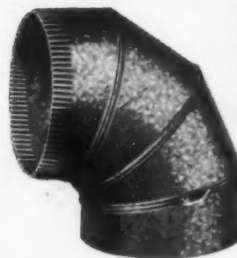
Joints are quickly, securely connected!

Short fade-away crimp quickly guides male end of joint into connecting joint. Entire distance from end of crimp to bead provides wide bearing surface — forms snug-fitting, secure connection without sheet metal screws.

Milcor Lock-Joint Furnace Pipe is available in 24", 30", 60", and 120" lengths. Popular sizes and gauges in Ti-Co galvanized steel. Ask your jobber or write to us for further information and prices.

MILCOR® Member of the **INLAND Steel Family**

Inland Steel Products Company
DEPT. A, 4023 W. BURNHAM ST., MILWAUKEE 1, WISCONSIN
BALTIMORE, BUFFALO, CHICAGO, CINCINNATI, CLEVELAND, DETROIT, KANSAS CITY,
LOS ANGELES, MILWAUKEE, NEW ORLEANS, NEW YORK, ST. LOUIS



Complete selection of matching fittings

Compute your profits more accurately by eliminating the hidden costs of handmade fittings. Free your men for installation work so you can handle more jobs during the busy season. There's a complete selection of top quality Milcor standardized fittings available to meet every installation requirement. Use them to insure compact, neat-looking, owner-pleasing jobs.

*You can stake
your reputation on
a Milcor installation!*

For Convenience Use Reader Reply Card

TO ASSIST READERS in obtaining more information about products advertised in this issue and those reported on in the Equipment Developments and New Literature departments, a reader service card appears just ahead of the directory section (yellow pages) and opposite page 198.

The postpaid card lists all advertisers by page number. To obtain descriptive literature, tear out the card, fill in your name, address and classification information *clearly*, circle the page numbers of the advertisers from whom you want more information and drop the card in the mail. American Artisan will notify the manufacturers of your interest and ask that they forward the information requested.

To obtain more information about products reported in the Equipment Developments and New Literature departments, circle on the reply card the code number identifying the item of interest, fill in the mailing information needed and forward to us for handling.

Form Oil-Fired Water Heater Section

NEW YORK CITY — An oil-fired water heater section has been established by Oil Heat Institute of America. The new section brings the total manufacturer division sections to three, the others being the domestic section and the commercial-industrial section.

Decries Gloomy Forecasts; Sees Good Years Ahead

HOLLYWOOD, FLA. — "Is our surging economy a house of cards about to tumble down around our ears and the 'Soaring Sixties' just a punctured balloon?" This question was presented by J. B. Elliott, president and chief executive officer, York Div., Borg-Warner Corp., at the company's recent distributor convention. Answering his own question Mr. Elliott said:

"I don't believe this is the case. The facts just don't jibe with some of the gloomy reports we hear. Sure there are some soft spots, some places in the road that seem awfully rough. But there is a lot of sunshine around if we just take the trouble to look." Reasons for optimism, he said, include the following:

Income Higher Than Ever

"Personal income during October, the last month for which accurate figures are available, was higher than ever. It was the eighth straight month to hit a new record. Auto production was heavy and private housing starts were 15 percent ahead of the previous month.

Public Has More to Spend

"The American consuming public has more to spend and save than ever before. Total personal income is now about \$409 billion a year — nearly \$24 billion higher than a year ago. Out of this \$409 billion, close to \$50 billion will go directly into taxes and another \$26 billion into personal savings. This still leaves a record \$333 billion to be spent for goods and services.

"Now let's look at expenditures for plant and equipment. Spending during the third quarter of 1960 was at the rate of \$37.5 billion, up from \$35.2 billion during the first quarter and up from a rate of \$32.5 for 1959.

GNP at \$600 Billion by '65

"If the crystal ball I look into on occasion hasn't blown a fuse, I think our gross national product will hit \$600 billion by 1965, compared to the \$500 billion we passed in 1960. It will pass the \$720 billion mark by 1970 and top \$860 billion by 1975.

"I don't know of any easier way to get into trouble than by trying to be too specific in economic forecasts, but I'm going to try one anyway. Let's take the installed value of commercial and residential air conditioning — which should be around \$1.5 billion."
(Continued on page 18)

Oil, Gas Exhibits To Be Shown At New York Fair

NEW YORK CITY — The Board of Directors of the Oil Heat Institute of America has approved a plan for OHI to participate in an industry exhibit at the 1964 New York World's Fair.

The gas industry also plans to exhibit at the fair, will feature displays depicting the progress of gas as a residential, commercial and industrial fuel.

(More news on page 18)

WHAT'S HAPPENING...

(Continued from page 17)

Year 'Round AC Standard in 800 Project Houses

MINEOLA, L.I., N.Y.—Year 'round air conditioning will be a standard — not optional — feature of homes to be built in the "Village on the Hill," an \$18,000,000 development on Long Island. The 800 homes in the new development will range in price from \$21,500 to \$24,000.

It is the first development in which warm air heating and air conditioning systems will be in-

(Continued on page 36)

Oil Heat Institute, National Fueloil Council Discuss Merger of Two Groups

NEW YORK CITY — "Progress toward formation of a single overall national organization to foster the interests of oil heat is most encouraging," according to Charles H. Burkhardt, managing director of Oil Heat Institute of America. For approximately two and a half years OHI has been working to achieve this unified concept, he said.

Recently a committee composed of OHI members and representatives of the National Fueloil Council completed a constitution and

bylaws for the proposed new national group, which it passed on to a smaller committee for further study and revision. The revised constitution, OHI believes, contains all of the necessary elements to assure the growth and development of the new organization, as well as to offer fair and equitable representation to the three segments of the industry to be represented. These are:

- 1) Dealers - distributors - jobbers of heating oil and/or oil heating equipment.
- 2) Manufacturers of oil heating equipment and/or accessories.
- 3) Refiners.

It is hoped that the merger of OHI and NFC and formation of the new "one roof" organization will be completed in the very near future.

Industry Leader Predicts Good Years Ahead for Air Conditioning Business

(Continued from page 17)

lion for 1960. If our industry remains at the same rate of growth we're experiencing now, we should pass the \$2 billion figure early in 1962, hit \$2.5 billion by 1965 and be close to \$4 billion by 1970.

"Look at it this way — for every \$1.50 worth of business you are doing now, you can do \$2 in 1962, \$2.50 in 1965 and \$4 in 1970.

"You can do this kind of business. You can also do more or you can do less. I'm just giving you my forecast of the average growth in dollar volume for everyone in the residential and commercial air conditioning business.

"In the months and years ahead: 1) Our economy is going to continue to grow; 2) People will have more disposable income to spend; 3) Aggressive leadership will be needed in the air conditioning industry; 4) Wholesalers and dealer-contractors will have to provide leadership at the local level.

"I'm proposing more work, more loyalty and more aggressiveness than you've ever put into anything before. I'm asking you to sell, and train others to sell, not just against other air conditioning competition, but against the real competition we face. You've got to sell against a second car or a better second car. Against television and color television, longer and more expensive vacation trips, more and better furniture and clothing, luxury foods, golf clubs and fishing trips, stocks and bonds, lawn mowers you can ride and solid gold watches.

"To move ahead, the air conditioning industry must learn to talk to the public in terms it understands and appreciates, such as comfort, convenience, health and prestige. We've got to make this great demanding public hungrier for air conditioning than for any of the other benefits being offered today."

ARI to Catalog Industry Films Available

WASHINGTON, D. C. — The Air-Conditioning and Refrigeration Institute's public relations department is working on the preparation of a list of training and informational films available to school groups, companies within the industry and others. As the first step in the program, ARI has prepared a questionnaire which will be mailed to member companies to ascertain what material each has available. The completed list will show what types of films have been produced, where they may be secured, to whom they are being offered, etc.

(More news on page 28)

their advantages...

"POP" Rivets cut *installed* fastening costs. No other blind rivet equals the savings potential in *installed* costs provided by **"POP"** Rivets. They help eliminate sub-assemblies and reduce assembly costs. They often provide the opportunity to use thinner sheets without distortion, fastener stripping, or loosening. As many as 1200 can be set per hour by unskilled help. Wide grip range simplifies inventory. Because they set by compression, they work equally well on plastic-to-metal fastening. **"POP"** Rivets can be applied at any point on the assembly line with light weight, inexpensive setting tools. With **"POP"** Rivets, you bring the tool to the work, not the work to the tool.

- Lower installed costs
- Easy to use
- Vibration-proof
- Least back-up space
- Low head profile
- Allow use of thinner sheets
- No stripping or surface marring
- Non-critical hole diameter

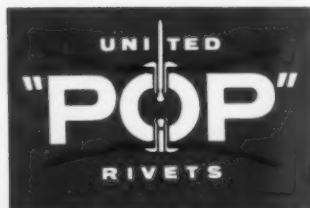
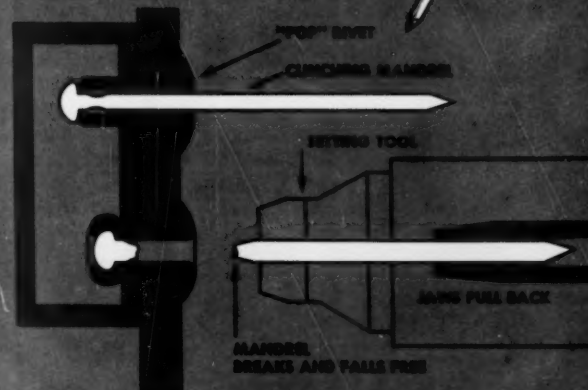
how they work..... ➔

"POP" Rivets are inserted and set from the same side of the work. The retracting jaws in the setting tool pull the mandrel head into the rivet on the reverse side until the mandrel breaks under tension. This high clinch action pulls parts together exerting up to 600 lbs. squeeze and produces a tight, positive, vibration-proof fastening over a wide range of stock variations.

"POP"[®] RIVETS

"POP"

When you use **"POP"** Rivets, you get the same advantages as the other blind rivets, but you also get the advantages of the **"POP"** Rivet system. The **"POP"** Rivet system is a complete system, including the rivets, the setting tool, and the mandrel. The **"POP"** Rivet system is designed to provide the same advantages as the other blind rivets, but it also provides the advantages of the **"POP"** Rivet system. The **"POP"** Rivet system is designed to provide the same advantages as the other blind rivets, but it also provides the advantages of the **"POP"** Rivet system.



**"POP" RIVET DIVISION UNITED SHOE MACHINERY CORPORATION
SHELTON, CONNECTICUT**



features

Because of their unique design, "POP" Rivets provide design and production engineers with a new concept in fastening convenience. Whether you make planes, missiles, metal furniture, toys, boats, roofs, gutters, signs, ducts, cabinets, or construct buildings, you will find "POP" Rivets offer production savings and improved fastening flexibility.



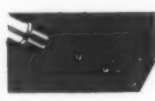
LOWER INSTALLED COSTS
"POP" Rivets can save 50% in installed fastener costs which is the largest factor in fastening expense.



PLASTIC TO METAL "POP" Rivets hold by compression. Controlled radial expansion prevents fracture.



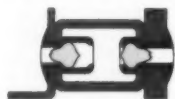
GREATER DESIGN FLEXIBILITY
Product design can be simplified since rivet is installed and set from one side.



NO SURFACE MARRING Eliminate enamel chipping, scratching or tool slipping which damages the finish and permits corrosion to start.



HIGH GRIP STRENGTH Exert as much as 600 lbs. squeeze between parts without distortion or stripping.



THROUGH THICK AND THIN "POP" Rivets hold tight even in .020 soft aluminum. No stripping or distortion.



LOW HEAD PROFILE Minimum head height is answer where space is important. Can eliminate countersinking.



LEAST BACK-UP SPACE Only $\frac{3}{16}$ " is needed for setting in places where space is scarce.



NON-CRITICAL HOLE DIAMETER Designer wants holes tight, production wants latitude for ease of assembly. "POP" Rivets accommodate both.



PRESSURE-TIGHT Closed-End "POP" Rivets seal as they set. Water tight to 500 lbs. psi.



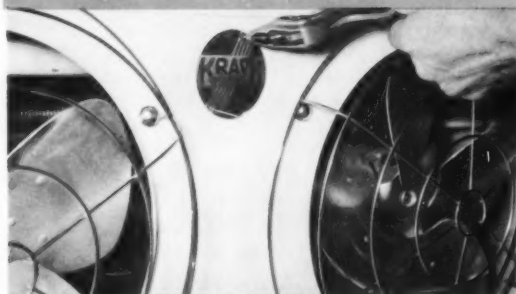
VIBRATION-PROOF "POP" Rivets can not back out or shake loose. Lock washers, nuts and thread stripping are eliminated.



ASSEMBLY-LINE FASTENING Install at any point. Inexpensive light-weight production tools available. No need for heavy capital equipment.



Save the surface with "POP" Rivets. No burrs, or refinishing. Smooth, low head profile eliminates countersinking on wood chair backs fastened to steel tubing.



Tamper-proof, more permanent fastening of name plates, serial number plates on highly finished surfaces without chipping with "POP" Rivets.



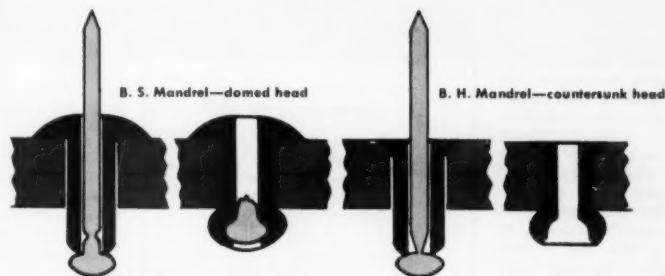
Low head profile, high speed setting and ease of assembly on aircraft saved 1.8¢ each over solid rivets, and 4.9¢ each on blind fastening over 5-year study.



there are two basic designs of "POP" Rivets:

OPEN-END TYPE

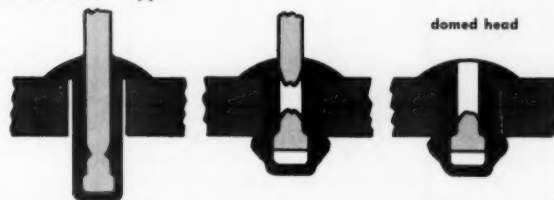
Resembles a hollow rivet from the outside. Because the mandrel head stays in the rivet body, break stem (BS) mandrels seal to a certain degree but are not water tight. There are two kinds of mandrels—Break Stem (BS) and Break Head (BH). After the Break Head mandrel sets the rivet, the head of the mandrel falls free and does not remain in the rivet body. Available on special request.



CLOSED-END TYPE*

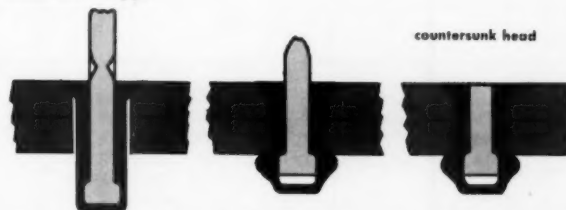
They differ from the Open-End type "POP" Rivets in that the end of the rivet is closed instead of open. Closed-End "POP" Rivets fill the needs for blind rivets which seal as they set. They are watertight up to 500 lbs. psi., and like the conventional Open-End Rivets, they are installed and set from the same side. In addition, as the rivet sets, a high degree of radial expansion is generated in the rivet body providing hole-filling characteristics. They are available with domed or counter-sunk heads in two types—hollow-core and solid-core.

hollow-core type



The mandrel of the Hollow-Core Rivet breaks near the mandrel head, and the outside has the appearance of a hollow rivet. This type is used where weight is a factor and extra high shear strength is not required.

solid-core type

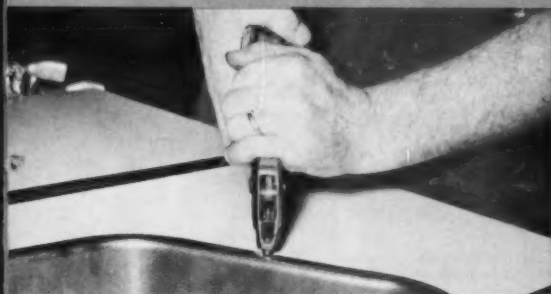


The mandrel in the Solid-Core Rivet breaks beyond the rivet head allowing the mandrel to protrude slightly. This permits finishing the mandrel down to the rivet head and adds the mandrel strength to the rivet. Positive lock-pin construction is afforded because the core is an integral part of the rivet and securely locked in by mechanical means. The mandrel is referred to as a core.

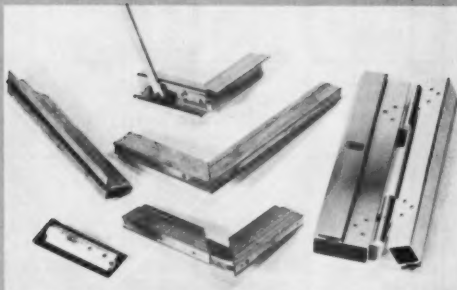
*also known internationally as IMEX® rivets



No enamel chipping, fastener loosening, and ability to use thinner sheets without distortion, makes "POP" Rivets invaluable in appliances, vending machines, refrigerator cabinets, etc.



Vibration-proof "POP" Rivets are ideal for truck or trailer bodies, repair shops, relining jobs.



High speed fastening without countersinking or fastener loosening simplifies the design and improves the appearance of aluminum window and door assemblies.



Bumper to plastic hull and decks on fiberglass boats are fastened with "POP" Rivets. Closed-End "POP" Rivets are also being used for fastening on aluminum and plastic boats.

Rapid fastening of building skin, vent., ducts, or insulating materials makes important savings in construction work.

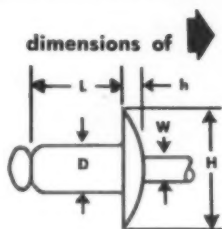
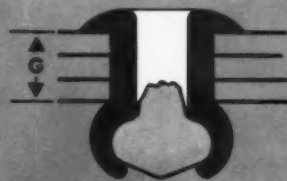
how to select

The thickness of material to be riveted and the ultimate strength of the joint are major considerations in selecting the proper rivet.

Ultimate strengths vary with the diameter, material, or whether Open-End or Closed-End rivets are used. Material thickness determines the required grip range (G) of the rivet. This, in turn, designates the numerals used to make up the "POP" Rivet code number. The first digit represents the diameter in $\frac{1}{16}$ "nds. The second digit represents maximum thickness capable of being riveted in $\frac{1}{16}$ "ths.

OPEN-END "POP" RIVETS

Used where water or air tightness is not required, the Open-End "POP" Rivet will provide a strong, low-cost method of fastening. Open-End countersunk head rivets are available in either monel or aluminum with a steel mandrel.



dimensions of

ALUMINUM rivet ALUMINUM mandrel

For exterior work such as building skin, storm doors and windows, aluminum gutters, fiberglass boats, or wherever corrosion resistance is needed.

rivet code:
AD() ABS

ALUMINUM rivet STEEL mandrel*

Where greater strength combined with corrosion resistance is required. Trailers, truck linings, vending machines, appliances, etc.

rivet code:
AD() BS

STEEL rivet STEEL mandrel*

Where high strength with minimum corrosion resistance is required. Cadmium plated to resist corrosion.

rivet code:
SD() BS

rivet diam.	hole size and drill no.	D	H	h	W	L	G grip range	rivet no.	typical ultimate strength (lbs.) single shear	wt. per 1000 (lbs.)	rivet no.	typical ultimate strength (lbs.) single shear	wt. per 1000 (lbs.)	rivet no.	typical ultimate strength (lbs.) single shear	wt. per 1000 (lbs.)
3/32	.096-.100 #41	.094	.188	.024	.057	.212	.020-.125	32		.22	32		.22	32		—
						.337	.126-.250	34	75	.25	34	115	.25	34	150	—
7/64	.113-.117 #33															
1/8	.128-.132 #30	.125	.250	.032	.076	.170	.020-.062	41		—	41		—	41		—
						.232	.063-.125	42		.32	42**		.42	42		.93
						.294	.126-.187	43		.34	43		.45	43		.97
						.357	.188-.250	44	145	.35	44	220	.49	44	295	1.1
						.419	.251-.312	45		.45	45		.57	45		—
						.481	.313-.375	46		—	46		—	46		—
5/32	.160-.164 #20	.156	.312	.039	.095	.254	.020-.125	52		.59	52		—	52		1.7
						.294	.126-.187	54	230	.74	53		—	54		2.0
						.379	.126-.250	56		.86	54	330	—	56	430	2.5
						.504	.251-.375			—	56		—			
3/16	.192-.196 #11	.187	.375	.047	.114	.277	.020-.125	62		.96	62		—	62		2.3
						.402	.126-.187	64		1.1	64		1.6	64		3.0
						.527	.251-.375	66	300	1.3	66	430	1.7	66	570	3.6
						.652	.376-.500	68		1.5	68†		—	68		4.4
						.777	.501-.625	610		1.6	610†		—	610		5.1
1/4	.257-.261 F															

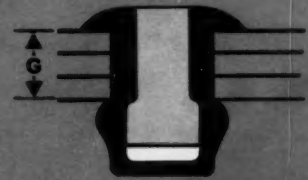
* steel mandrels are cadmium plated, except the closed-end hollow core rivet, which is not plated.

** Also available in copper with copper plated steel mandrel.

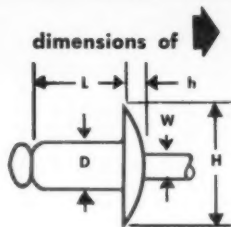
† available during 1961

CLOSED-END "POP" RIVETS

Seal as they set. Designed to provide pressure tightness to 500 lbs. psi. Suggested for tanks, vessels, or applications where weather tightness is required. Closed End rivets are available in both countersunk and domed heads.



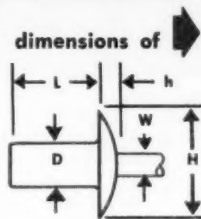
▲ Weights shown in table are installed weights for break-stem "POP" Rivets. Weights for break-head rivets are less.



MONEL rivet STEEL mandrel

Highest strength Open-End "POP" available where corrosion resistance and strength are needed. Both rivet and mandrel are zinc plated.

rivet code:
MD (■) BS



ALUMINUM rivet STEEL mandrel*

Water and air tightness combines with corrosion resistance. Solid-core design permits flush exterior surface and greater strength.

AD (■) H
AD (■) S

MONEL rivet									ALUMINUM rivet												
D	H	h	W	L	G grip range	rivet no.	typical ultimate strength (lbs.) single shear	wt. per 1000 (lbs.)	D	H	h	W	L	G grip range	rivet no.	typical ultimate strength (lbs)			wt. (lbs.) per 1000 hollow		
																tensile	shear hollow-core	shear solid-core			
.109	.192	.020	.072	.190	.020-.070	319	300	.58													
				.210	.071-.090	321		.61													
				.190	.020-.070	419	420	.82	.125	.236	.035	.064	.250	.025-.062	41	337	270	450	.46		
				.240	.071-.120	424		.90					.312	.063-.125	42				.5		
				.290	.121-.170	429		1.1					.375	.126-.187	43				.54		
.125	.236	.025	.076	.290	.121-.170	429		1.2					.500	.251-.312	45**						.76
				.350	.171-.230	435		1.3													
				.400	.231-.280	440															
				.190	.020-.050	519	560	1.3					.312	.025-.125	52	500	396	613	.87		
				.240	.051-.100	524		1.5	.156	.312	.050	.086	.375	.126-.187	53				.94		
				.300	.101-.160	530		1.7					.500	.188-.312	55				1.1		
				.370	.161-.230	537		1.9													
				.400	.231-.260	540		2.0													
				.450	.260-.310	545		2.2													
				.240	.020-.090	624	940	2.6					.312	.025-.125	62	725	550	800	1.3		
				.300	.091-.150	630		2.7	.187	.375	.060	.104	.437	.126-.250	64				1.6		
				.360	.151-.200	636		3.0					.562	.251-.375	66				1.8		
				.390	.201-.230	639		3.1													
				.500	.231-.340	650		3.5													
				.650	.341-.490	665		4.3													
				.750	.491-.590	675	4.7														
				.240	.020-.090	624	940	2.6					.312	.025-.125	62	725	550	800	1.3		
				.300	.091-.150	630		2.7	.187	.375	.060	.104	.437	.126-.250	64				1.6		
				.360	.151-.200	636		3.0					.562	.251-.375	66				1.8		
				.390	.201-.230	639		3.1													
				.500	.231-.340	650		3.5													
				.650	.341-.490	665		4.3													
				.750	.491-.590	675	4.7														
				.240	.020-.090	624	940	2.6					.312	.025-.125	62	725	550	800	1.3		
				.300	.091-.150	630		2.7	.187	.375	.060	.104	.437	.126-.250	64				1.6		
				.360	.151-.200	636		3.0					.562	.251-.375	66				1.8		
				.390	.201-.230	639		3.1													
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				.300	.091-.150	630		2.7	.187	.375	.060	.104	.437	.126-.250	64				1.6		
				.360	.151-.200	636		3.0					.562	.251-.375	66				1.8		
				.390	.201-.230	639		3.1													
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				.240	.020-.090	624	940	2.6					.312	.025-.125	62	725	550	800	1.3		
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				.360	.151-.200	636		3.0					.562	.251-.375	66				1.8		
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				.360	.151-.200	636		3.0					.562	.251-.375	66				1.8		
				.390	.201-.230	639		3.1													
				.500	.231-.340	650		3.5													
				.650	.341-.490	665		4.3													
				.750	.491-.590	675	4.7														
				.240	.020-.090	624	940	2.6					.312	.025-.125	62	725	550	800	1.3		

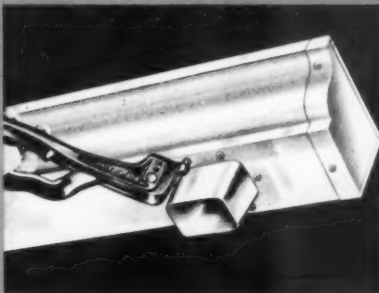
* solid core steel mandrel.

** 45 not available in solid core rivet.

** set with AML 905 hydraulic gun (jaws # PG064—nosepiece # PG061) or lazy tong No. TT24 (jaws # 14135—nosepiece # 14138)

"POP" RIVET DIVISION

UNITED SHOE MACHINERY CORPORATION



Quick fastening of aluminum downspout with "POP" Rivets. Also fastens butt ends of gutters, eave tubes, end caps, supports, siding, awnings, etc.



High speed riveting for curved panels on trailer interior with air-powered pistol weighing less than 2 lbs.



"POP" Rivets speed assembly, provide tighter joints, with no enamel chipping or stripping even on 24 gauge steel.

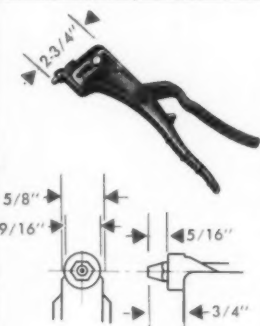
HAND TOOLS

HAND PLIERS

No. 26A and 38A

Low cost tool for one-the-job setting for ducts, vents, sheet metal work. 26A sets diameters through 1/8 inch on all materials. Sets 3/32" all aluminum or aluminum with steel mandrels with different jaw and nosepiece. Pliers No. 38A set 3/16" all aluminum only.

3/32	3/64	1/8	3/32	3/16	1/4
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•



jaw number		nosepiece number	
open end	closed end	open end	closed end
PRP 27	—	PRP 31	—
PRP 11	—	PRP 32	—
PRP 11	PRP 27	PRP 32	PRP 39
PRP 12	—	PRP 33	—
PRP* 11	—	PRP* 36	—
—	—	—	—

hand operated

hand operated

15 oz.

1 lb.

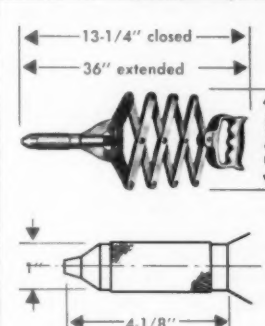
LAZY TONGS

No. TT4

Low cost tool for setting all diameters and lengths where air pressure is not available. Does not take corner head.

NOTE: If corner head is desired, order Tool No. TT104 which accommodates the No. 550 or A12 corner head. The TT104 cannot be used without a head.

3/32	3/64	1/8	3/32	3/16	1/4
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•



jaws number (pair)		nosepiece number	
open end	closed end	open end	closed end
130 84	—	1303 3B/3	—
130 27	—	1303 3B/4	—
130 27	130 84	1303 3B/4	1308 5B/4
130 27	130 27	1303 3B/5	1308 5B/5
130 27	130 27	1303 3B/6	1308 5B/6
—	—	—	—

hand operated

hand operated

3 lbs. 7 oz.

4 lbs. 4 oz.

HEADS

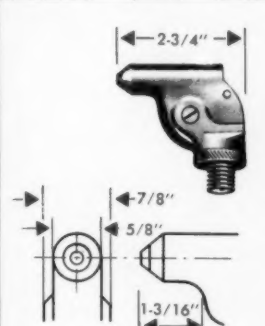
CORNER HEAD JR.

No. 550

Attachment for setting rivets at a 90° angle on PRT200, PRG, TT103 and TT104. Sets rivets through 3/32" only.

When used on TT103 or TT104 use A19 adaptor.

3/32	3/64	1/8	3/32	3/16	1/4
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•



jaws number (pair)		nosepiece number	
open end	closed end	open end	closed end
550/11B	—	550/29/3	—
550/11C	—	550/29/4	—
550/11C	550/11B	550/29/4	550/37/4
550/11C	550/11C	550/29/4	550/37/5
—	—	—	—
—	—	—	—

depends on gun head is attached

depends on gun head is attached

9 3/4 oz.

1 lb.

CORNER HEAD SR.

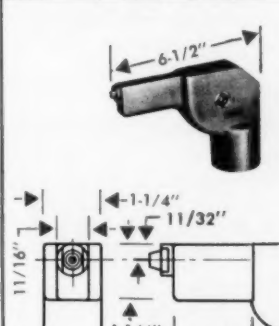
No. A12

For setting all size rivets through 3/16". For use on PRG, TT103, and TT104.

No adaptor required when used on TT103 and TT104.

For use on PRT 200 with adaptor PRT 40 for 1/4" dia. rivets only.

3/32	3/64	1/8	3/32	3/16	1/4
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•



jaws number (pair)		nosepiece number	
open end	closed end	open end	closed end
150 23	—	132 18/3	—
132 07	—	132 18/4	—
132 07	150 23	132 18/4	132 47/4
132 07	132 07	132 18/5	132 47/5
132 07	132 07	132 18/6	132 47/6
—	—	—	—
—	—	—	—

depends on gun head is attached

depends on gun head is attached

1 lb. 14 oz.

3 lbs.

*for PRP 38A hand plier only



ordering instructions

how to order Open-End "POP" Rivets

It is important in setting speed and performance that "POP" Rivets be ordered correctly according to: rivet type, rivet material, rivet head, grip range, mandrel material (when other than steel is desired) and mandrel type. Code designations are used to facilitate identity, ordering procedure and inventory control. The coding method for both Open-End and Closed-End "POP" Rivets is basically identical. Differences occur primarily in the references to mandrel design and when aluminum rather than steel is desired. Aluminum mandrels are designated as A. All other mandrels are steel; no special identity is used.

how to order Closed-End "POP" Rivets

At present, all Closed-End rivets are aluminum with steel mandrels. The principle of the code is identical to the Open-End rivets with the exception of the mandrel. Closed-End rivets are furnished in two types—Hollow-Core and Solid-Core. In the Hollow Core, the mandrel breaks just under the head and the rest of the mandrel comes out of the rivet. In the Solid-Core type, the mandrel breaks beyond the rivet head. In this construction the mandrel becomes a core, hence the reference is "Solid-Core".

how to order "POP" Rivet tools

All tools are shipped complete with one nosepiece and a pair of jaws. Tables on pages 6 and 7 indicate which rivets each tool will pull. Also listed are numbers for nosepieces and jaws needed for each rivet size.

It will be observed that more than one size can often be pulled with the same jaws, but different nosepieces are needed. By comparing the part numbers, the correct parts can be ordered for pulling the sizes desired.

explanation of "POP" Rivet code

Open-End example

A	D	4	2	A	BS
1	2	3	4	5	6

Closed-End example

A	D	6	4	H
1	2	3	4	7

- 1 rivet material: A = aluminum; S = steel; M = monel
- 2 rivet head: D = domed head; K = 120° countersunk head
- 3 rivet diameter in 1/32"
- 4 aluminum and steel rivets:
grip range or max. thickness of work in 1/16"
monel rivets:
length of rivet in hundredths of an inch
- 5 mandrel material: A = aluminum; no letter = steel
- 6 mandrel design: BS = break stem (mandrel head remains in rivet body)
BH = break head (mandrel head falls free of rivet body, special order)
- 7 core design: H = hollow-core; S = solid-core

typical ordering examples

Open-End

To order 50,000 Open-End, 1/8" dia. domed head, aluminum rivets with aluminum break-stem mandrel, to rivet 1/8" total thickness

50,000 Open-End, AD42ABS

where: A = aluminum
D = domed head
4 = 4/32" or 1/8" dia.
2 = 2/16" or 1/8" grip
A = aluminum
BS = break-stem

To order the above rivets in steel

50,000 Open-End, SD42BS

To order above rivets in monel

50,000 Open-End, MD429BS

where: 29 = length of rivet (.290) in hundredths of an inch

To order above rivets in monel with 120° countersunk head.

50,000 Open-End, MK429BS

Closed-End

To order 50,000 Closed-End, 5/32" dia. domed head, hollow-core aluminum rivets, to fasten 3/16" maximum thickness

50,000 Closed-End, AD53H

To order above rivets with a solid-core and 120° countersunk head

50,000 Closed-End, AK53S

For example, the PRT 200 "TEXAN" GUN pulls all materials through 1/8" diameter and 5/32" and 3/16" all aluminum. In every case the jaws are the same. Only the 7/64" and 1/8" rivets utilize the same nosepiece.

Jaws and nosepieces also differ between the "Open-End" and "Closed-End" "POP" Rivets. This is because the mandrel diameters are not identical for both types of rivets.



"POP" Rivet Kit No. 100

For designers, production engineers, or prototype shops. Contains setting pliers and approx. 240 "POP" Rivets of 1/8" size in various lengths and materials, packed in individual plastic boxes for convenience. Complete with instructions and application hints.

\$19.95



**WHOLESALE LOCATED
THROUGHOUT THE COUNTRY**

"POP" RIVET DIVISION

UNITED SHOE MACHINERY CORPORATION SHELTON, CONNECTICUT

Tough fabricating jobs are easy with **Premier Quality**

*... the amazing galvanized sheet
with the zinc coating
that's on for keeps!*



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These sheets take every crimp, every lock seam, every draw, every twist, bead, roll and fold as well as the most complicated short-radii bends and spinning without flaking, cracking, chipping or peeling!

You'll be amazed at how easily **PREMIER QUALITY** sheets form . . . how sparkling bright, good looking and strong the finished jobs are.

Galvanized by the most modern continuous process **PREMIER QUALITY** sheets have the tightest zinc coating ever. Call today for the steel you need! Available in both *SHEETS* and *COILS*.



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WHAT'S HAPPENING...

Publish Test Code for Air Moving Equipment

DETROIT — A standard test code covering air moving devices (AMCA Bulletin No. 210) is now available from the Air Moving and Conditioning Association, Inc. Based on research sponsored by the association and conducted at the University of Detroit engineering laboratories, the code is the result of nine years' work by air moving and conditioning engineers, is said to be considerably broader in scope than any previous test code for air moving devices.

The new code establishes uniform methods for conducting tests on all types of air moving equipment, and is designed to provide more accurate data upon which equipment performance ratings may be based.

FNMA President Sees More Funds For Home Buyers

WASHINGTON, D.C. — A continued increase in the availability of residential mortgage funds during the early part of this year was forecast recently by Federal National Mortgage Association president J. Stanley Baughman. Mr. Baughman based his prediction on a recent report of FNMA's Secondary Market Operations agency buys and sells FHA-insured and VA-guaranteed mortgages in the secondary or resale market). He said that all indications point to a continuing ease in the money market, "which ought to mean more favorable financing conditions for home buyers."

(More news on page 34)



MORE PROFITS INCREASE SALES

Your customers have been pre-sold on the benefits of air cleaners and ionized air. The public has read the October issues of "Reader's Digest", "Rotarian", and other 1960 issues of "Electronics", "Business Week", "Coronet", "M.D.", "Consumer", etc., and have learned of the marvelous benefits of negative ions, and are now in the market for the *Sun-Lite-Aire* IONRAY* Air Cleaner and Ionizer. Now is the time for YOU to take advantage of this publicity.



The patented *Sun-Lite-Aire* IONRAY* Air Cleaner is easily installed (10 minutes) in any forced air heating and air conditioning system at a price to fit every budget.

FOR THE ENTIRE BUILDING —Not Just One Room—and costs less than most portable units on the market today.

The *Sun-Lite-Aire* IONRAY* adds negative ions to the air and also effectively removes odors, dust, dirt, and pollen. Reduces germs and bacteria to a relatively safe and low level.

Join the Bandwagon, Mr. Contractor. Send today for our price list and dealer aids designed to help you tell the IONRAY* story.

SAMPSON SCIENTIFIC
Div. of SCAPCO

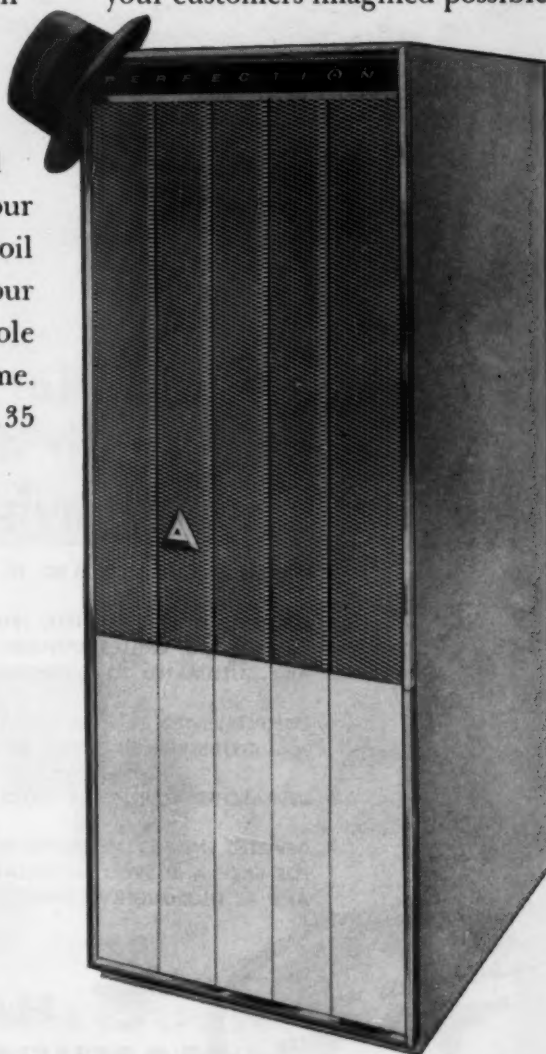
2832 W. Lake Street • Chicago, Illinois
*T.M.— U.S. Patent No. 2,941,265



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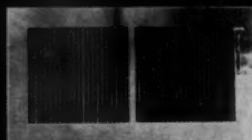
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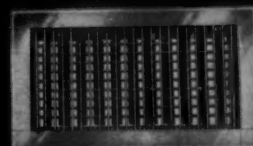




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TRIPL-AIRE, FIXT-AIRE and No. 821 series provide the ideal Registers and Grilles for all commercial installations, large or small.



No. 401 SIDEWALL PERIMETER DIFFUSAIRE — and the similar No. 405 Baseboard Diffusaire blanket the wall of the average room. Positive volume control valve.



No. 411 DELUXE FLOOR DIFFUSAIRE (perimeter) has opposed louvers for perfect air pattern. Positive balancing adjustment.

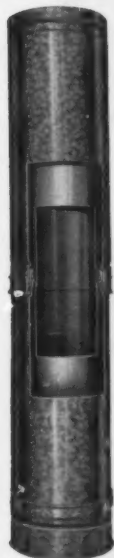


No. 462 AND 464 BASEBOARD DIFFUSAIRES (perimeter) 2 and 4 ft. lengths used individually or in multiples. FLEXO-FLANGE simplifies installation.



No. 406 PERIMETER BASEBOARD DIFFUSAIRE. Finest of the 18" diffusers. Full 38 sq. in. free area.

METLVENT



THE TYPE B GAS VENTING EQUIPMENT PRAISED BY USERS THROUGHOUT THE NATION FOR ITS FINE CONSTRUCTION AND THE EASE WITH WHICH IT CAN BE INSTALLED.

Manufactured by the same skilled craftsmen who for nearly 60 years have produced the high quality H&C registers and grilles.



SEE OUR
EXHIBIT AT THE
CHICAGO
EXPOSITION —
BOOTH 1136

HART & COOLEY MANUFACTURING CO.

500 EAST EIGHTH ST. • HOLLAND, MICHIGAN

IN CANADA: HART & COOLEY MANUFACTURING CO., FORT ERIE, ONTARIO

Now WRIGHT-TEMP

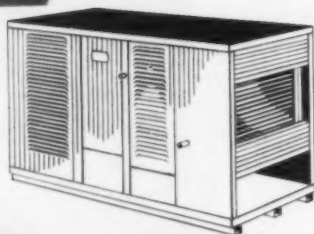
offers a complete line of
AIR CONDITIONING EQUIPMENT

for every need

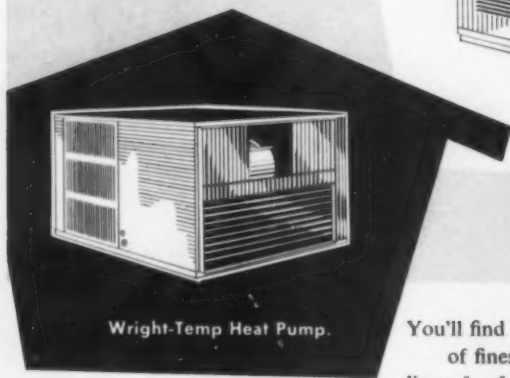
*Wright Air Conditioning
Furnace-Cooling Combinations
and Wright-Temp
Heat Pump*



Wright Air Conditioning



Furnace-Cooling
Combinations



Wright-Temp Heat Pump.

You'll find the famous Wright name—symbol of finest quality in the field—on a *complete* line of refrigerated air conditioning equipment in package and remote models to meet every installation requirement.

Save time, trouble and money by recommending and selling the full Wright line—*one* dependable source of supply for every air conditioning need: commercial, residential, industrial applications; *one* supplier who knows your particular territory and problem.

Wright Air Conditioning and Wright-Temp Heat Pumps are designed and built in the Southwest especially to meet the extreme demands of the Southwestern climate. Superb Wright engineering and quality assure you of complete customer satisfaction.

All models calorimeter rated *Beyond A R I* specified conditions to 115°



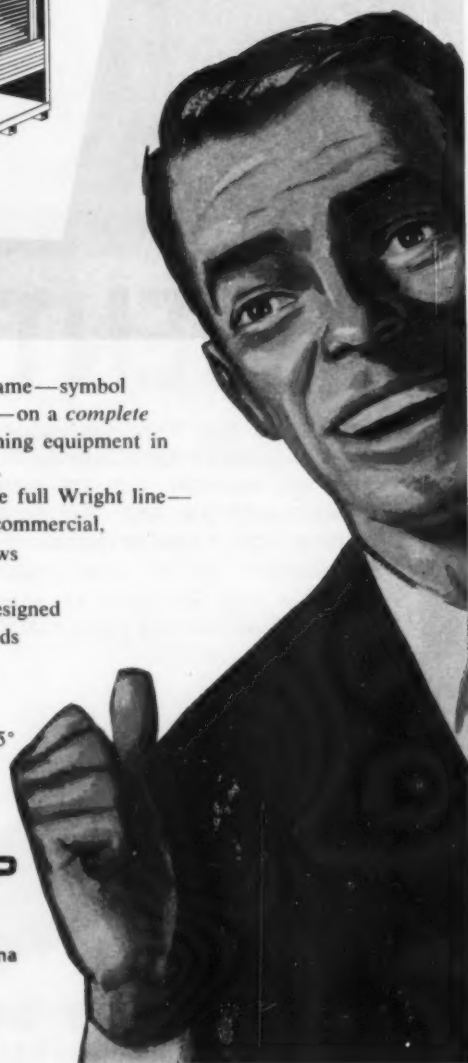
For Complete Information write to

WRIGHT-TEMP
MANUFACTURING COMPANY

2902 West Thomas Road


Phoenix, Arizona

"Creating New Climates for Better Living"



THIS POWERFUL NATIONAL AD WILL HELP YOU SELL MORE FRAM FURNACE FILTERS!

WARNING!



YOUR FURNACE FILTER MAY BE DANGEROUSLY DIRTY! It's Mid - Winter filter change time! Right now your furnace may be delivering only half-hearted heat. After half a winter's service, germ-laden dirt collects in the filter, clogs the flow of heat. You face bigger fuel bills and potential health dangers to your family. Change now to a clean, efficient Fram Furnace Filter . . . Permachem-treated to kill over 99% of trapped germs. Get whole-hearted heat. Get lasting protection. Ask your service dealer to replace your dirt-clogged filter with a Fram Permachem-treated Air Filter.

CHECK YOUR FILTER WITH THE FRAM EFFICIENCY CHART. Compare the colors with your furnace filter. If your filter is in the Cor D "Danger Zone" it's time to change to a fresh Fram Filter.

A.	B.	C. Danger	D. Zone
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FRAM AIR FILTERS

Products of the Fram Aire Co. • Div. of Fram Corporation • Providence 16, R.I.

we'll say it 20,000,000 times in American Home, Living, House Beautiful, House & Garden and Parents' Magazine!

- **THIS HARD-HITTING CAMPAIGN TELLS YOUR CUSTOMERS:** "IT'S MID-WINTER FILTER CHANGE TIME!" and advises them to see their service dealer, today! Fram is telling your story and makes it easy for you to tie in with the national advertising.
- **FRAM OFFERS YOU A COMPLETE PROMOTIONAL TIE-IN KIT TO HELP YOU BUILD YOUR SALES!** Jumbo mailing cards, newspaper ad mats, stuffers, colorful window streamers, ad reprints, display materials.
- **FRAM'S EXCLUSIVE PERMACHEM-TREATED FILTERS ARE PRICED TO GIVE YOU FULL PROFITS!** Tie in and cash in on the hottest promotion in the industry! Be sure you have a full stock of these quality furnace filters by the nation's leading filter makers.

FRAM AIR FILTERS

Products of the Fram Aire Co. • Div. of Fram Corporation • Providence 16, R.I.

WHAT'S HAPPENING . . .

(Continued from page 28)

Serfass Heads Air-Conditioning And Refrigeration Institute



OFFICERS OF THE AIR-CONDITIONING and Refrigeration Institute — new and continuing in office — are, from left: W. H. Aubrey, treasurer; F. J. Kreissl, vice president; R. K. Serfass, president; Rudolf G. Berg, immediate past president; L. N. Hunter, vice president; and Russell Gray, vice president

WASHINGTON, D.C. — R. K. Serfass, manager of Westinghouse Electric Corp.'s Air Conditioning Div., has been elected president of the Air-Conditioning and Refrigeration Institute. He succeeds Rudolf G. Berg, vice president of Copeland Refrigeration Corp., as chief executive officer of ARI.

Other officers include three vice presidents — Russell Gray, vice president of Carrier Corp.; L. N. Hunter, director of engineering for Crane Co.'s Plumbing, Heating & Air Conditioning Group; and F. J. Kreissl, president, Detroit Controls Div. of American Radiator and Standard Sanitary Corp. W. H. Aubrey, president of Frick Co., is treasurer.

In accepting the presidency, Mr. Serfass reviewed objectives of ARI, as set forth in its bylaws, and listed specific objectives applicable to 1961. Financial objectives include:

- 1) Increased profitability for the entire industry.
- 2) Consolidation with other

trade associations in the industry to reduce overall costs to individual companies by eliminating duplication of effort.

3) Pursuit of revision of tax laws to offset the high cost of research and development.

Marketing objectives to be pursued in 1961 are:

1) Dissemination of maximum amount of statistical information in market trends within the industry, measured by shipment of products.

2) Promotion of the benefits of air conditioning and refrigeration in competition with other industries such as automobiles, travel, etc.

Mr. Serfass also outlined engineering objectives of the association. He said ARI would continue to place emphasis on standards which represent the industry consensus on product designs of acceptable quality and would continue to promote its certification program as the way to assure achievement of quality design.

Two College Short Courses Announced

CLEVELAND — The first four-day college short course in warm air heating and small commercial summer air conditioning of the 1961 series has been scheduled at West Virginia University, Morgantown, W. Va., for Jan. 30-31, Feb. 1 and 2. R. E. Shafer, coordinator of Engineering Extension Training, is handling the early registration and arranging the program schedule.

The second college short course announced is scheduled Feb. 6, 7, 8 and 9 at Oklahoma A & M at Stillwater, Okla. R. R. Irwin is handling early registration and program arrangements.

Short courses planned for 1961 will include sessions on air distribution design and adjustment for a small residence, a two-story residence, a split level house and a small commercial building. Heat loss, heat gain, duct sizing and equipment selection will also be covered.

In addition to the technical sessions, there will be lectures on air filtering, humidification, zone control, gas venting and the functions of dealer-contractors as managers of their businesses. The latter subject will be based on the newly introduced 136-page Management Reference Guide.

Vie for Copper And Brass Awards

NEW YORK CITY — For the third consecutive year, the Copper & Brass Research Association is sponsoring an award program to honor significant new applications of copper, brass, bronze, and other copper-base alloys. This year,

(Continued on page 42)

New gas valve Faces up to SPACE LIMITATIONS in heaters

- All adjustments on one face
- Straight-through or right-angle outlet



Here's the only completely new space heater gas valve on the market! It's not a revamp. It's not a redesigned water-heater valve. This new low-cost AP-Model 159 is a special space heater valve with all connections and adjustments on one face. This "unilateral" design works with a choice of straight-through or right-angle outlets to give you the ultimate in installation ease—a valve that mounts quickly even in the tightest corners.

The A-P Model 159 valve is manufactured as a complete unit with *electric actuator for remote electric thermostat* or with *integral thermobulb snap-action thermostat* (shown). Both types with or without gas regulator. Other features include aluminum valve body, thermomagnetic safety pilot, safe lighting, 100% safe shut-off, built-in "A" and "B" valves. Delivers 67,400 Btu less regulator. For all heating gases: L.P., city and sour.

Latest development in CC's complete line of gas heating controls, the Model 159 is now being used on the better, new space heaters. Write today for full facts.

CONTROLS COMPANY



Creative Controls for industry

OF AMERICA

HEATING AND AIR CONDITIONING DIVISION

2452 N. 32nd St., Milwaukee 10, Wisconsin • Cooksville, Ontario • Zug, Switzerland

*Ask Your Air Conditioning Equipment
Manufacturer for —*

**THE ORIGINAL LIGHTWEIGHT "PATENTED" LIQUID
CHARGING CYLINDERS FILLED WITH REFRIGERANT 22**

FINGER OPERATED NUT NOW SUPPLIED TO CONNECT HOSES QUICKLY

Stock sizes in REFRIGERANT 22 capacities of: 50lb. - 25lb. - 15lb.



Air conditioning equipment manufacturer's brand name and part no. shown on label.



Convenient for liquid charging (as shown) as well as gas charging (in standing position).



Stack conveniently to save space.

- RIGID MOISTURE AND QUALITY CONTROL
- Blue Plastic seal on valve outlet is your assurance of maximum dryness quality and purity.
- Seals are printed "MAXIMUM DRYNESS—FACTORY SEALED."
- LESS WASTE BECAUSE OF OVER OR UNDER CHARGE
- Choice of small cylinder sizes to suit each system. (Less cost per cylinder.)
- EASY TO HANDLE — lightweight, small cylinders with built-in hand grips. (50 lb. size only 22 lb. empty.)
- NO HOOD CAPS TO LOSE — Valve protected by permanent collar.
- STACKING RINGS SAVE VALUABLE SPACE
- Valve protection collar also serves as stacking ring. Uniform ring on all sizes enables mixed stacking.
- CAN BE USED IN BOTH UPRIGHT POSITIONS
- Equally convenient for gas or LIQUID CHARGING.
- No mounting blocks necessary.
- NO VALVE WRENCHES NEEDED — Handwheel already on cylinder valve.
- STANDARD FITTING ALREADY ON VALVE
- Sturdy cylinder valve complete with 1/4" outlet and finger-operated knurled outlet nut ready for quick connecting and disconnecting charging hose. No wrenches needed to remove or attach nut.
- YOU CAN DELIVER AIR CONDITIONING SYSTEM COMPLETE WITH FULL REFRIGERANT CHARGE ANY TIME OF THE YEAR
- NO FREIGHT OR DEPOSIT PROBLEMS ON CYLINDERS
- Prices include freight on full cylinders and on return of empties.
- No cylinder records needed — deposit of \$12.00 each for all three sizes of cylinders refunded regardless of cylinder number.

ASK FOR THE BLUE CYLINDER WITH THE PROTECTING STAND RING

Air Conditioning Equipment Manufacturers Send Inquiries to:

PENNSYLVANIA ENGINEERING CO.

1107-21 NORTH HOWARD STREET PHILADELPHIA 23, PENNA.

U. S. Patent No. 2956708

Foreign Patents applied for

WHAT'S HAPPENING...

All-Year Conditioning Standard in 800 Homes

(Continued from page 18)

stalled in compliance with the new Code of Standards developed by the Climate Control Council, a group comprising members of Sheet Metal Workers Union Local No. 55 and heating and air conditioning dealer-contractors in Nassau and Suffolk counties.

Kermit Feldman, vice president, United Combustion and Air Conditioning Corp., whose firm will install warm air heating and air conditioning equipment in the homes, described the development as "a major breakthrough for warm heating and summer air conditioning in the one-family home market on Long Island."

According to the builder, Richard A. Osias, cost economies effected will enable him to include central air conditioning in the homes for only a few hundred dollars more than they would cost to build without it. He chose the combination of warm air heating and air conditioning, he said, not only because it is the most modern and economical to install and operate, but also because it offers "filtered, humidified and purified air for year 'round conditioning of homes."

10 Month Steel Output Over 87 Million Tons

NEW YORK CITY — Steel production in the United States totaled 87,266,440 tons during the first 10 months of 1960, according to the preliminary report of American Iron and Steel Institute.

(More news on page 42)

Malco

CRIMPERS
SEAMERS
NOTCHERS
SNIPS

SNAP LOCK
PUNCHES

DIVIDERS

PIPE & DUCT
HOLDER SETS

HEX KEY
WRENCH SETS

SCREW DRIVERS
HACK SAWS
HACK SAW BLADES
FOLDING TOOLS

RECIPROCATING
SAW BLADES

COMPASS SAWS
COMPASS SAW BLADES
COMPASS SAW HANDLES

RIVETING HAMMERS
SETTING HAMMERS
SCRATCH AWLS
DAMPERS



For more information
contact your jobber.

MALCO PRODUCTS
3356 Gorham Avenue
Minneapolis 26, Minn.

...introducing!



Malco rivets are set with the terrific pulling power of the Malco-Matic gun. Head of mandrel is drawn tightly into blind side of hollow rivet against work, with mandrel stem breaking off and automatically passing through gun.

Malco -MATIC

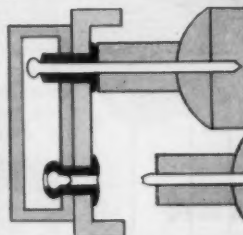
RIVET GUN & BLIND RIVETS

Inserts and sets Malco Rivets from the same side.

Easy ONE HAND operation • Gets into confined areas



Placing rivet into nozzle



Setting rivet — Releasing mandrel



Mandrel automatically ejected



Weights only 1-lb. 8 oz.

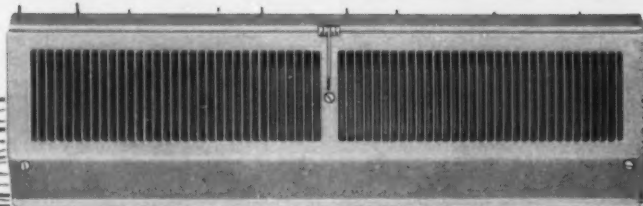
The Malco-Matic Rivet Gun and Rivets are especially adapted for commercial air ducts, sheet metal roofing, gutters, vents, and all metal enclosures. They are cutting installation time by more than 50% and are cutting cost while doing a better job.

The Malco-Matic Riveter is easy to grip, even by a small hand, easy to squeeze and is so compact it is pocket size. The slim nose gets into small areas and the automatic ejection of the pulling mandrel eliminates any possible jamming.

IT'S JAM PROOF — Automatically ejects pulling mandrel.

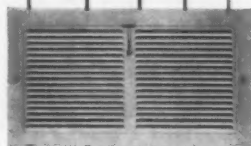
The 1961 Auer

BASEBOARD PERIMETER DIFFUSERS

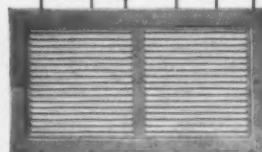


"Perfusaire" (No. 100) is the ultimate for use on perimeter heating or combination heating and cooling installations. Only 18" long; has spread and capacity of conventional 4 to 8 ft. units. Built-in damper assures perfect control and balancing. Low air resistance for maximum throw and spread.

WALL REGISTERS & GRILLES

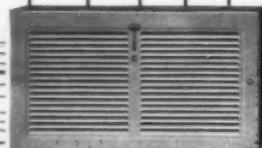


Auer No. 7032—Airo-Flex Wall Register with single valve. Adjustable horizontal fins are set at 22° downward.

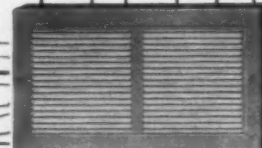


Auer No. 7005—Airo-Flex Wall Grille or intake. Adjustable horizontal fins are set at 22° downward or upward.

BASEBOARD REGISTERS & INTAKES



Auer No. 7042—Airo-Flex Baseboard Register with single valve. $\frac{3}{8}$ inch return. Adjustable fins set at 22° downward.



Auer No. 7043—Airo-Flex Baseboard Intake. $\frac{3}{8}$ inch return. Adjustable horizontal fins are set at 22° downward.

STREAMLINER SERIES (Commercial)



Auer No. 1005-V-HML—Has vertical bars in front that are easily individually adjusted, and multiple lever-operated louvers in rear.*



Auer No. 1005 V—Single bank of adjustable vertical bars for left and right air deflection. Minimum resistance—maximum diffusion.*

*All Streamliner faces shown are available with opposed blade damper.

OTHER PRODUCTS



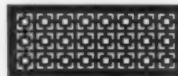
Auer H-800 Heat-Rite Baseboard Registers.



Auer DSC Cold Air Return Faces.



Auer Series 60 (square) and Series 65 (round) ceiling outlets.



Auer Ornamental Grilles with wide choice of materials and designs.

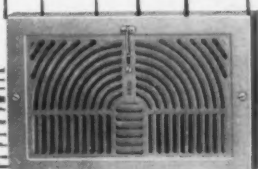


Auer all-steel clothes chute doors.

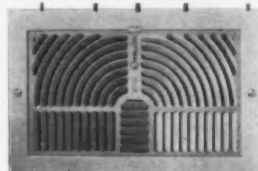


Auer DR DuraBilt Floor Registers.

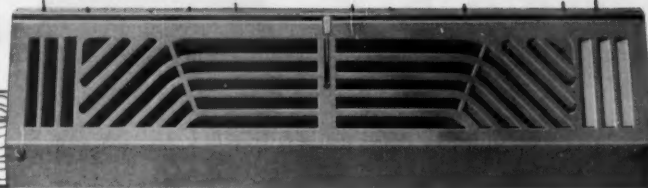
complete line of REGISTERS • GRILLES • DIFFUSERS



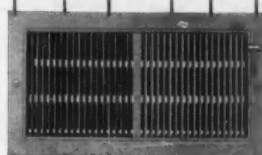
"Fanaire" (No. 242), true air flow, 180° fan pattern. No open areas—perfect diffusion. Sizes 10 x 6", 12 x 4", 12 x 6" and 14 x 6"



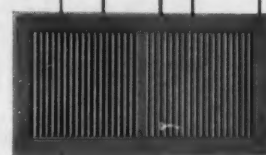
"Fanaire" (No. 232), effective low-resistance air diffusion. No blank areas—no "hot spots." 10 x 6", 12 x 4", 12 x 6", and 14 x 6".



"Valuaire" is economy priced 18" diffuser. Increased profit on regular and development jobs where low-cost units are required. Top grade materials, rugged construction are guaranteed by Auer's quality-controlled manufacturing processes. Equipped with balancing damper. Easy installation.



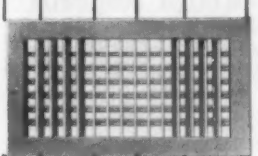
Auer No. 4432—Airo-Flex Wall Register with Multi-Louver Valve. Adjustable vertical fins are set at 22°, half right and half left.



Auer No. 4005—Airo-Flex Wall Grille or intake. Adjustable vertical fins are set at 22°, half right and half left.



Return Air Intakes, 3 sizes, match No. 100 "Perfusaire" in height and appearance, accommodate 1 to 3 joist spaces.



Auer No. 1205 VH—Double deflection grille with 2 banks of beveled adjustable bars. Front bar is vertical, rear horizontal.*

FLOOR DIFFUSERS



New VL (Value Line) Floor Diffuser is economically priced, advanced in design. Rugged construction. Factory set vanes. Available in sizes 2 1/4 x 12 and 14"; 4 x 10, 12 and 14".



Auer DRP Floor Diffuser—Rugged construction, true fan type air pattern with factory set bars. Adjustable limit lock for precise system balancing. New wheel and linkage control of volume damper. Available in nine sizes: 2 1/4 x 10, 12 and 14"; 4 x 10, 12 and 14"; 6 x 10, 12 and 14".

Auer features a complete line to meet every heating, cooling, or combination system requirement. The Auer line exemplifies correctness of design and construction—decorator styling—easy installation.

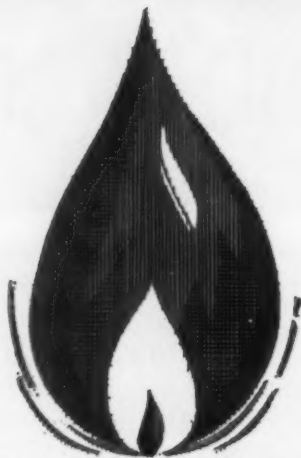
For full technical information, call or write for our free catalogue:

Auer
REGISTERS
and GRILLES

THE AUER REGISTER COMPANY

"REGISTERS AND GRILLES FOR EVERY HEATING AND COOLING NEED"
6601 CLEMENT AVENUE • CLEVELAND 5, OHIO

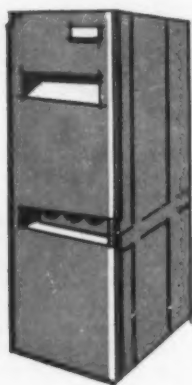
GM Delco



ANNOUNCES A HOT NEW GAS LINE

GM-DELCO engineers have designed a complete new line of gas-fired Conditionair furnaces for 1961. This new GM-DELCO line includes the refinements that dealers and builders want most. It's designed to accept

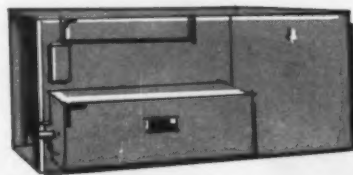
air conditioning for complete central heating and cooling. Handsome, durable, efficient and compact units—easily installed. Brand name acceptance makes the new 1961 GM-DELCO line easier to sell.



NEW 1961 GM-DELCO HIGHBOY. Available now in 70, 80, 100 and 125,000 BTU input capacity. Other models up to 190,000 BTU input are available. Easily installed in closet or corner locations with zero clearances, low enough for basement installations.



NEW 1961 GM-DELCO COUNTERFLOW MODEL. Here's a convincing answer to dependable, low-cost installations. Ideal for perimeter systems in crawl space or slab homes. Durable cast iron slotted burners and super-quiet blowers are featured throughout the new 1961 line.

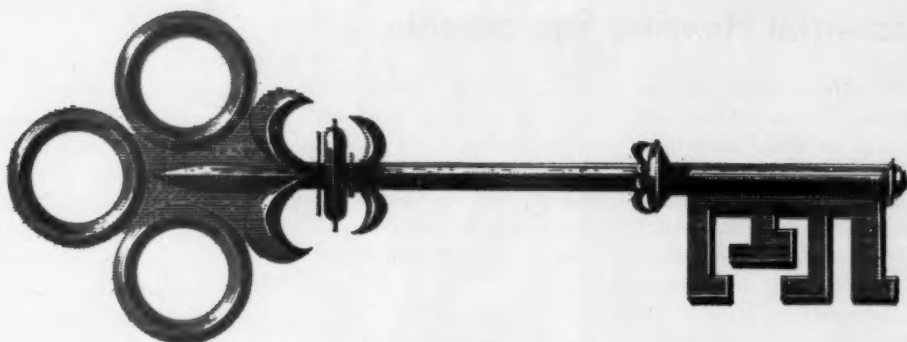


NEW 1961 GM-DELCO HORIZONTAL GAS FURNACE. Designed for installation in utility rooms, attic areas, crawl space and suspended applications. Models run from 60,000 to 140,000 BTU input. Tested and approved by the American Gas Assn. for use with natural, manufactured, mixed and L.P. gases.

THE NEW 1961 GM-DELCO LINE is handsomely and durably finished in Sahara Tan and Cameo Beige and features the sheer modern lines which lend fine appearance and make installation in limited space possible. The entire line has been engineered to accept the Delco air conditioning units that are part of GM-DELCO 365 Conditionair systems.

Whatever the type of home, whether traditional or modern, full, half or no basement, one or two story, split-level—there are GM-DELCO heating or air conditioning systems engineered to the highest reliability standards to meet all your requirements.

GM Delco



ANNOUNCES A HOT NEW FRANCHISE THE GM-DELCO KEY DEALER PLAN

- ⌘ **GENERAL MOTORS' NAME**—assures top flight engineering and a universally known reputation for Reliability.
- ⌘ **DIRECT FACTORY-DEALER DISTRIBUTION**—planned sales, advertising, training, and promotional aids.
- ⌘ **LIMITED NUMBER OF DEALERS**—in each market, and only they can buy Delco equipment.
- ⌘ **PROTECTED PRICING**—stable pricing with protection!
- ⌘ **DEALER LISTINGS IN NATIONAL ADS**—insures your direct participation in dynamic advertising, at no cost to you.
- ⌘ **COMPLETE SALES BUILDING PLAN**—with local advertising, prospecting, and selling plans to build your sales.
- ⌘ **OVER 200 MODELS—PLUS ACCESSORIES**—GM-Delco gives you a model to meet your every need.
- ⌘ **GENERAL MOTORS GROUP INSURANCE**—available to eligible dealers and their personnel.

Get the full story right away! Send a post card or letter to Delco Appliance Division, General Motors Corporation, Department 02, Rochester 1, New York today!

GM-DELCO RELIABILITY LENDS PRESTIGE

GM Delco 365 CONDITIONAIR

API to Study Ways to Improve Residential Heating Equipment

CHICAGO — A research program designed to aid in the development of new and improved residential oil heating equipment will be initiated this year under the direction of the American Petroleum Institute's division of marketing. The program calls for the development, interpretation and dissemination of new technical information which will be available to manufacturers of oil heating equipment. J. L. Minner, Shell Oil Co., described the new program as "an investment in the future of oil heating." He said research teams will:

- 1) Search for new principles in fuel oil combustion.
- 2) Interpret research results in terms of practical application to combustion equipment.
- 3) Attempt to solve problems which present major obstacles to development of new equipment.

Copper & Brass Group To Sponsor Awards

(Continued from page 34)

awards will be given in two categories — industrial and architectural. Both first prize winners will receive \$500 and a mounted replica of the "ankh," metallurgical symbol of copper. Entries can include new or re-designed products, architectural plans or engineering concepts, metallurgical developments, marketing programs, production techniques or other contributions that have advanced the use of copper or its alloys. Both awards will be presented May 17, 1961 at the association's annual meeting in Hot Springs, Va.

"Activities in the API program will be carried to the point of demonstrating principles," he said, "but not to the point of providing final equipment design. Manufacturers will be encouraged to complete final details."

New England Servicemen Study Oil Heating

BOSTON — Group II of the oil heat service schools sponsored by the Oil Heat Institute of New England is now in session. Classes began January 9, will continue for a period of nine weeks. Group II serves Norwich, Conn. and Providence, R.I. as well as Fairhaven, Fall River, New Bedford, Hyannis and Quincy, Mass. Group III, scheduled to begin March 27, will cover Waltham, Springfield and Peabody, Mass.; Hartford and New Haven, Conn.

"The man your customer meets is your serviceman," the association points out. "These courses are designed to keep servicemen up to date on new equipment and new service methods. Upgrading the oil heating industry by better service is the prime objective of our service schools."

Subjects covered include: Low Pressure Oil Burners (speaker furnished by Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp.); Combustion, Nozzles, Air Handling Parts and End Cones (classes conducted by a representative of Eddington Metal Specialty Co.); and Controls (sponsored by Minneapolis-Honeywell Regulator Co.

Hold Silver Shield Meeting in Cleveland

CLEVELAND — Warm air heating and air conditioning dealer-contractors in the Cleveland area met recently at the Cleveland Engineering Society Auditorium to hear details of the National Warm Air Heating and Air Conditioning Association's Silver Shield program.

Cooperating with the national association in planning the meeting was the Cleveland Silver Shield Activity Committee consisting of: Wm. Fingerhut, Wm. Fingerhut & Son; Mannie Sheftel, Union Square Heating & Air Conditioning; David Gore, Home & Industrial Heating; Gordon Justen, Domestic Sheet Metal Co.; and David Knight, Passov Sheet Metal & Heating Co.

The meeting resulted in a decision to set up a 12-week training school which will be available to every dealer-contractor in the area.

Publicize Warm Air Benefits At L.I. Fair

MINEOLA, L. I., N. Y. — A 30 ft reproduction of a school room is being exhibited by the Climate Control Council at the Long Island Fair to dramatize the health and savings benefits of warm air heating.

A blackboard in the front of the room carries the message: "For health and savings, warm air heating is best. It gives us clean, pure heated air to breathe and filters out dust molds, fungi and pollen. It costs 15 to 20 percent less a year for warm air heating than other systems."

An adjacent information center is manned by council members.

DESIGNED ESPECIALLY FOR THE HEATING OF TODAY

THE FAMOUS

**McQUAY-
NORRIS**

“Q-T”

SILENT GAS VALVE

BUILD CUSTOMER CONFIDENCE WITH McQUAY-NORRIS

RELIABILITY

THE FINEST SILENT GAS VALVE YOU CAN INSTALL

When you've finished a heating job you want to be sure you're not called back time and time again for repairs and service. Rely, then, on the McQuay-Norris "Q-T" valve. For longevity and operating reliability there's no better silent valve available.



**ALSO SPRING-LOADED,
SOFT-SEAT SOLENOID VALVES**

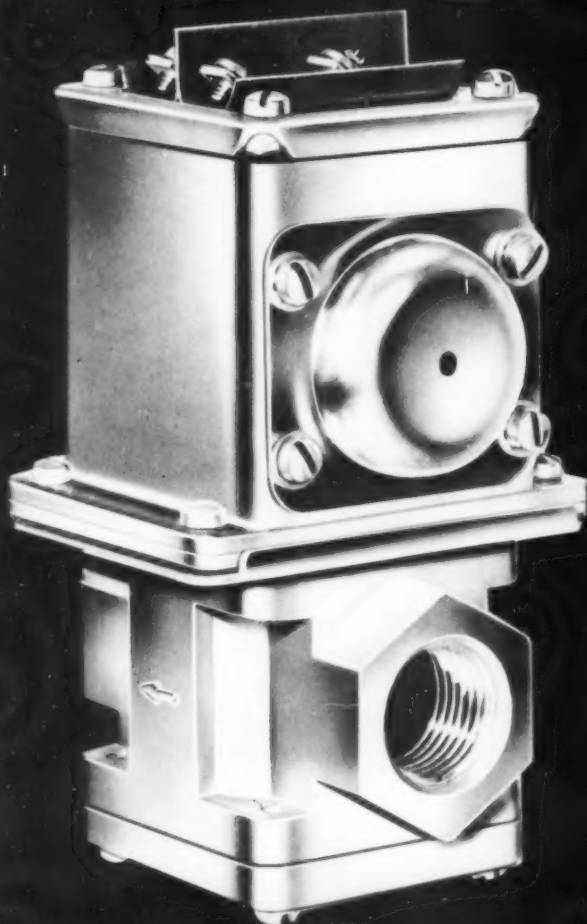
**NOTE: Spring-loaded, Soft-Seat
Valves were originated by**

**McQUAY-
NORRIS**

THE FAMOUS

“QT”

GAS VALVE IS
AVAILABLE FOR DELIVERY
FROM 22 STRATEGICALLY
LOCATED WAREHOUSES
ACROSS THE NATION...



AVAILABILITY—the key to fast service
in an emergency—is a positive and profitable
advantage that you get from McQuay-Norris.
Your nearby McQuay-Norris branch warehouse carries
a complete stock for immediate service.

**McQUAY-
NORRIS**



MANUFACTURING CO.

ELECTRIC PRODUCTS DIVISION, ST. LOUIS 10, MO.

51 YEARS IN THE MANUFACTURE OF PRECISION PRODUCTS

AT BOOTH N-316:



Please send me full information on
McQuay-Norris gas controls.

NAME

ADDRESS

CITY

STATE

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the new **VICTOR GAS** controls
temperature within $\frac{1}{10}$ of a degree

Electronic Modulation is a completely new concept in gas heating. Where ordinary furnaces require a 2 to 4 degree change to actuate the burner, the new Victor "Fin-Deluxe" with Electronic Modulation requires only $\frac{1}{10}$ of a degree! The burner flame actually adjusts through an infinite range of sizes to hold indoor temperature steady regardless of outdoor changes.



Dual Speed Blower is available with the Victor "Fin-Deluxe." The blower runs at low speed when the burner is operating at low to medium flame and maximum speed when the burner flame is medium to high. This eliminates cool air drafts caused by the blower operating at high speed when the bonnet temperature is low. Vibrationless blower belt and cast iron blower provide vibration-free operation.



Fuel-Saving Fins are another important feature you get only with Victor. Victor "Fins" enlarge the heating surface so air can be warmed faster thus providing fuel savings of 30% and more. Victor dealers can prove these savings with a convincing table-top demonstration. Victor's five sided radiator also increases heating efficiency. Photo shows top view of radiator, heat exchanger and "Fins."



UPGRADE YOUR INDUSTRY, INCREASE YOUR PROFITS . . . GO VICTOR

Send details for a Victor franchise to:

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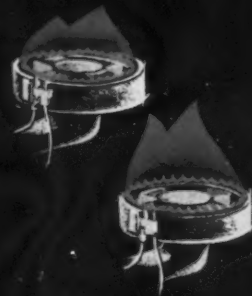
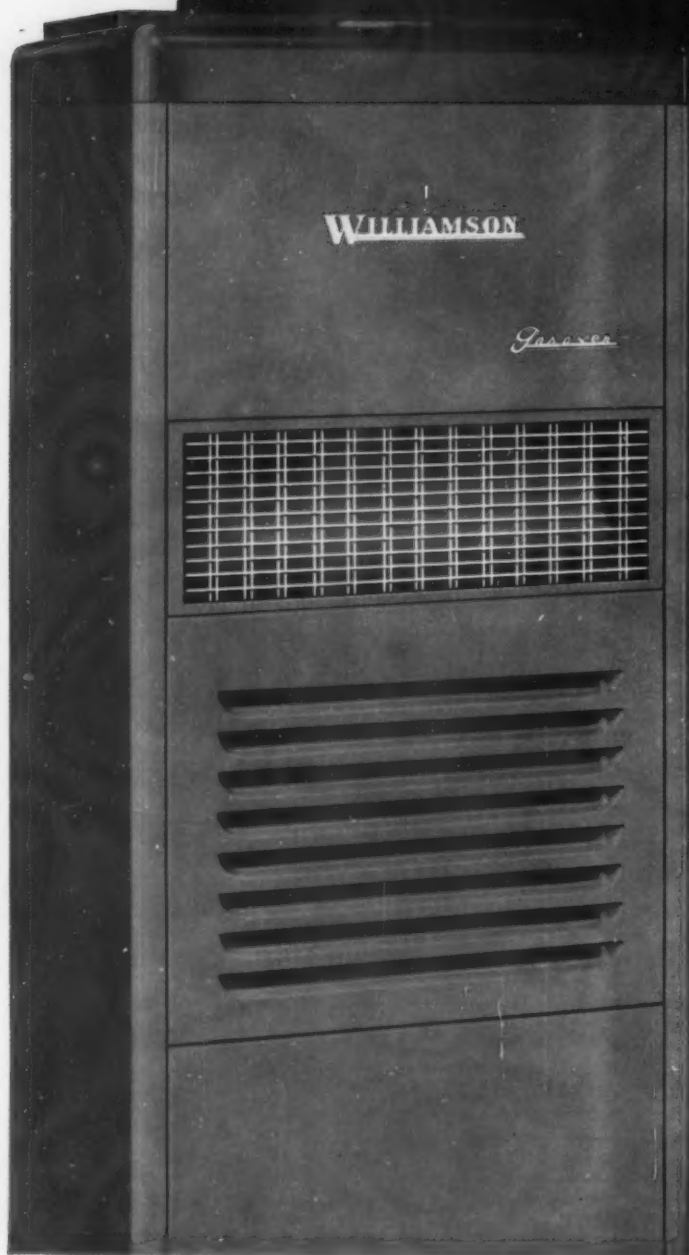
Zone _____ State _____

**HALL-NEAL
FURNACE COMPANY**
1322-42 N. CAPITOL AVENUE
INDIANAPOLIS 7, INDIANA

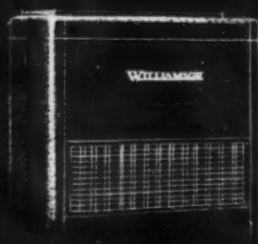


Makers of
Quality Equipment Since 1890

Your customers will BUY



NEW... Miracle Burner... TWO STAGE OPERATION... famous Tri-plite iron and stainless steel ribbons... outstanding economy... whisper-quiet.



Famous Seal-Tite® cabinets in Hi-Boy, Lo-Boy and Counter-flow styles. Two-tone Frost green.



Hi-Boy Model

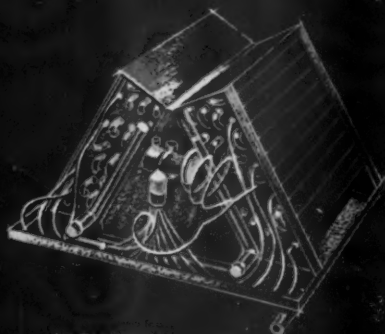


Counter-Flow Model

the difference!



TWO thermostats... outdoor thermostat adjusts burner flame size to meet changing temperatures.



Air Conditioning the Gasaver is designed for summer cooling with EXTRA blower capacity where required.



Lo-Boy Model with Air Conditioning

new WILLIAMSON

Gasaver®



Not just another furnace... new distinctive, exclusive features make the Gasaver different... set it apart from *all* other furnaces. *Customers recognize, want and will buy the difference that is Gasaver.* The Gasaver represents an engineering achievement, a positive contribution to modern home comfort.

BE A WILLIAMSON DEALER...

HAVE exclusive Gasaver... a tremendous advantage over your competition

PLUS exclusive Oilsaver in Hi-Boy, Lo-Boy and Counter-flow models

PLUS SUPER Series... a competitive line of quality units

PLUS famous Seal-Tite® Duct, Pipe & Fittings

PLUS the complete line of Williamson Air Conditioning units for residential or commercial installations

PLUS a complete line of *free* literature, engineering aids, and selling plans... all dealer designed and tested

COPYRIGHT, 1960 — THE WILLIAMSON CO.

THE WILLIAMSON COMPANY
3310 X 13 Madison Road, Cincinnati 9, Ohio



I'd like more information on:

WILLIAMSON Furnaces ☐ Gasaver ☐ Oilsaver ☐ Super Series
☐ Williamson Air Conditioning
☐ Williamson Seal-Tite® Duct, Pipe and Fittings

Name _____ Title _____

Firm _____

Address _____

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HUSSEY COPPER'S WORKABILITY MEANS ON-SITE SAVINGS

One of copper's biggest advantages in building products is its workability. Copper is easy to work with . . . easy to form on the job . . . easy to join . . . easy to solder . . . and its flexibility serves you in the tight spots, where hand forming is essential. It makes your job easier every inch of the way—saving you both time and money.

Hussey produces a wide range of copper building products to meet every copper need. Specify Hussey to be certain you're getting the finest quality copper available.

Warehouses located in: Pittsburgh, Cleveland, Cincinnati, Chicago, St. Louis, Philadelphia and New York.

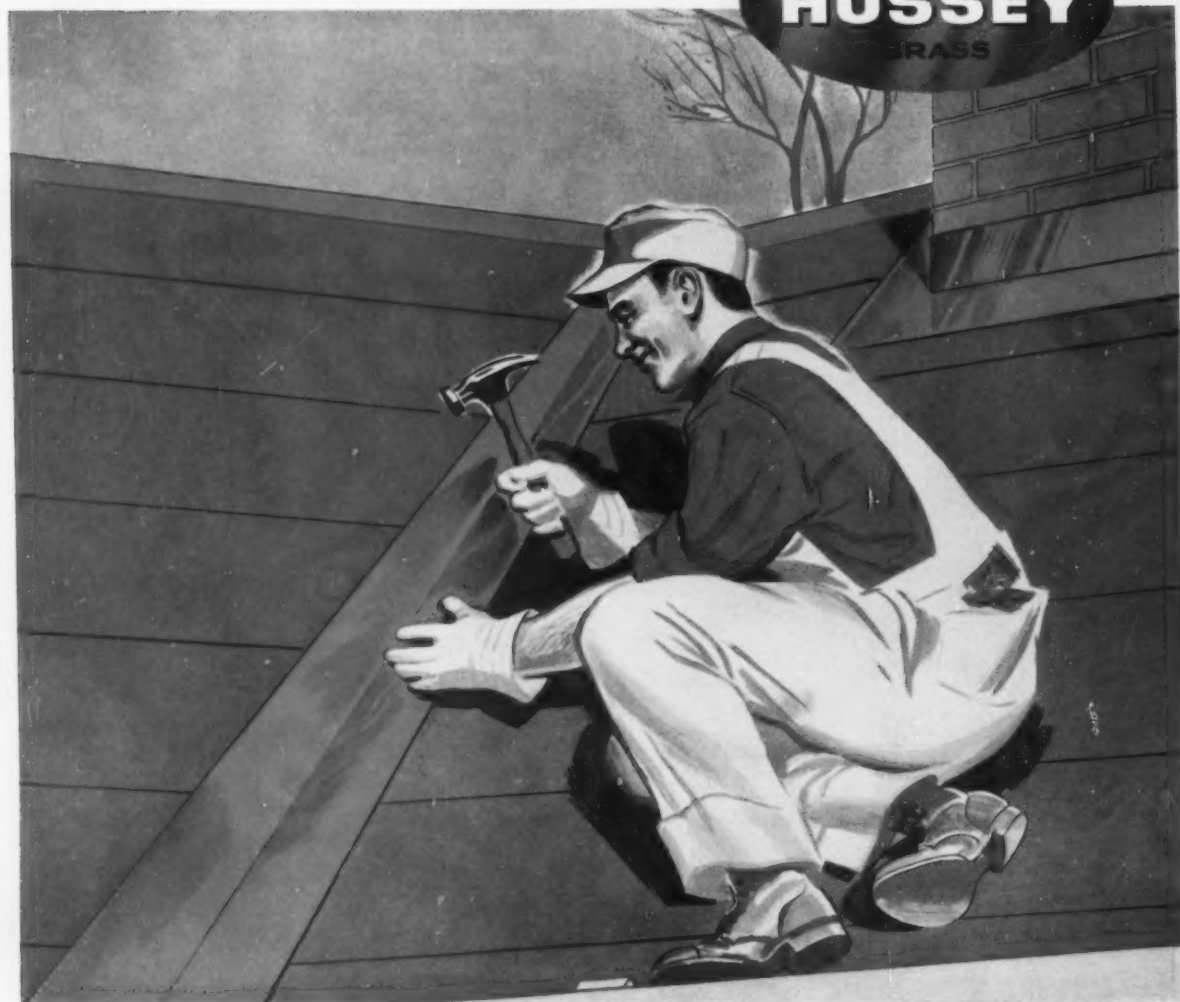
QUALITY BUILDING PRODUCTS BY HUSSEY

Copper Sheet Metal	Roll Copper Flashing
Copper Eave Troughs	Copper Conductor Pipe
Copper Ridge Roll	Roof Drainage Accessories
Majestic 3-way Thru-Wall Copper Flashing	
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A cinch to operate!

Built to take it!

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Make this your invitation to visit Niagara's Booth at the coming Exposition and see today's most up-to-date machines for sheet metal working. Operate them yourself and find out what they can do for you. Bring along your questions. Factory engineers will be there to answer them and to make your visit a profitable experience.

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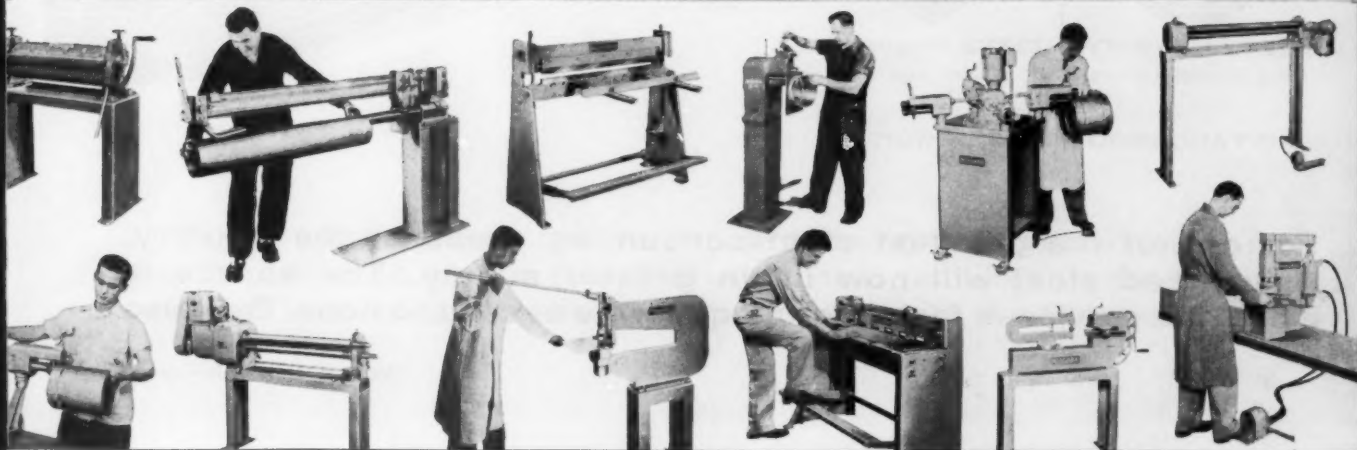
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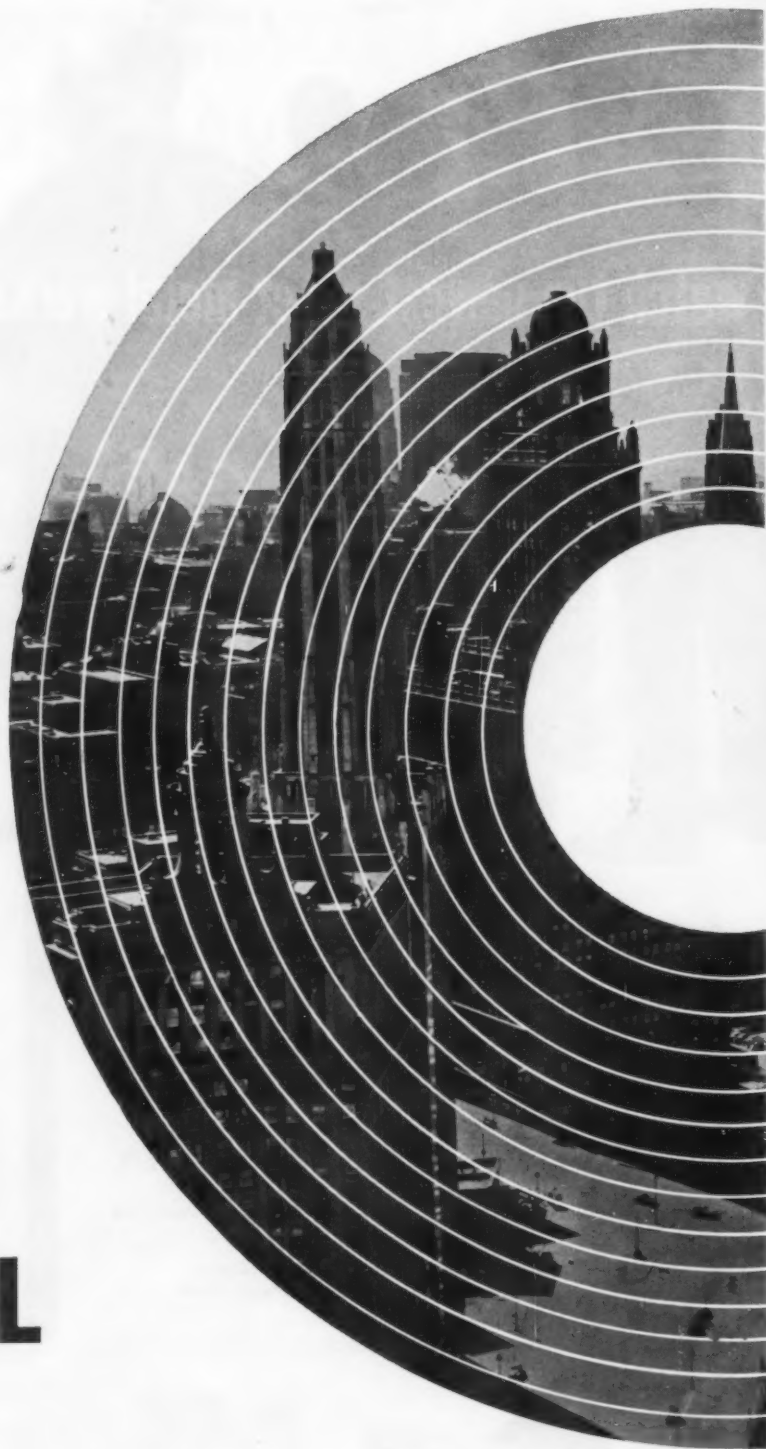
*America's Most Complete Line of Presses, Shears,
Machines and Tools for Plate and Sheet Metal Work*

witness dramatic demonstrations
of these job operations:

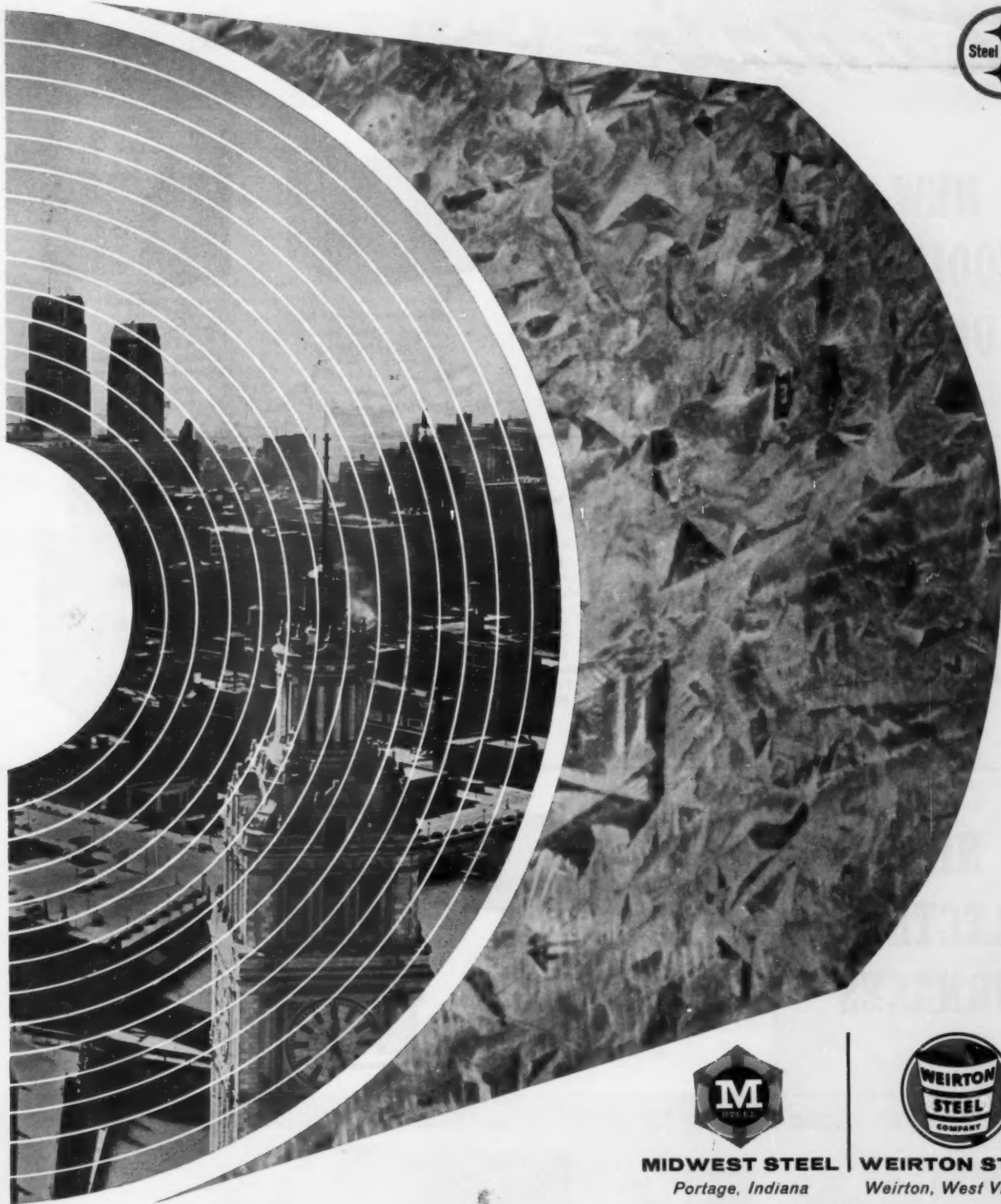
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MORE
GALVANIZED
STEEL
FOR
MID-AMERICA
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NEW
MIDWEST
STEEL**



For one of the greatest steel-consuming areas of the country, galvanized steel will now be in greater supply. The source is close, the service is fast, and the quality is second to none. Because



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Portage, Indiana



WEIRTON STEEL
Weirton, West Virginia

divisions of
NATIONAL STEEL CORPORATION

Weirkote, the modern continuous-process galvanized steel, is now being produced at our new Midwest Steel facilities in the Chicago area, as well as at our Weirton Steel division in the Pittsburgh area.

Luxaire Can Lead You

NEW COOLING UNITS



Air Cooled Condensing Unit
New 3 and 5 Ton Capacities
with propeller fan and with
Top Discharge through
top-mounted Condenser Coil
for Peak Performance!



**Self-Contained Summer
A.C. Unit**
New 2 or 3 Ton Unit has
2 Blowers, 2 Motors,
Condenser Intake and
Discharge through a common
Grille at the same end!

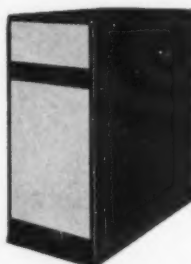


Self-Contained A. C. Unit
New 2 or 3 Ton Unit has
Cooling Air and Return Air
Connections at the same end!

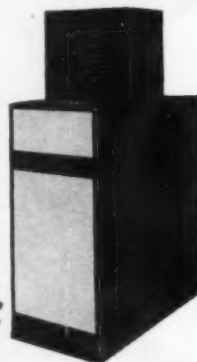
NEW OIL FURNACES



**Winter
A. C. Unit
with
Exposed
Burner**
Interior
view shows
Heavy
Gauge
Heating
Element
and Extra-
Capacity
Blower!

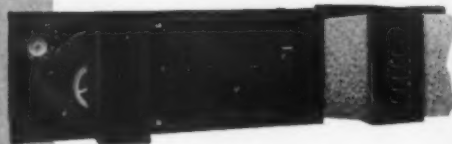


**Winter A. C.
Unit with
Vestibule
Enclosure** has
accenting
Panels
that conceal
Burner!



**Winter A. C.
Unit with
Cooling Coil**
Standard
Equipment
Blower has the
extra capacity
for Cooling!

NEW ELECTRIC FURNACES



Electric A. C. Unit —
Horizontal with Cooling Coil
Interior view shows Extra-Capacity
Blower and Electric Element Sections.
Addition of Cooling Coil makes this
an All Electric Year 'Round
Air Conditioning Unit!



**Electric A. C.
Unit — Upflow**
Same Unit can
be installed
vertically with
Blower below
Electric Elements!



**Electric A. C.
Unit —
Counterflow**
Same Unit can
be installed
vertically with
Blower above
Electric Elements!

MORE GAS FURNACES THAN EVER — UPFLOW, COUNTERFLOW, HORIZONTAL, BASEMENT!



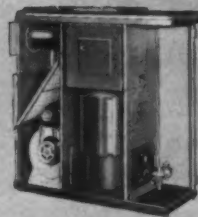
**Gas and Oil Upflow
Winter Air Conditioning Units.** 75,000
to 200,000 Btu — Gas.
78,400 and 112,000
Btu — Oil. Assembled
and Wired at the
factory! High Air
Deliveries!



**Gas and Oil
Counterflow Units.**
75,000 to 150,000
Btu — Gas.
78,400 to 123,200
Btu — Oil.



Gas and Oil Horizontal Furnaces
80,000 to 140,000 Btu — Gas.
89,600 to 224,000 Btu — Oil.
Slender, Compact Design!
High Air Deliveries!



**Gas or Oil
Basement Type
Winter Air Conditioning Units.**
105,000 to 260,000
Btu — Gas.
84,000 to 224,000
Btu — Oil.

**MORE OF EVERYTHING IN HEATING AND COOLING...
EVERYTHING EASIER TO SELL THAN TO COMPETE AGAINST!**

To Extra Profits in 1961!

New Air Cooled Condensing Units: Now a complete range of sizes — 2, 3, 4 and 5 Tons. Luxaire Air Cooled Condensing Units provide top discharge through the condenser coil with the powerful propeller housed inside the weather-resistant cabinet. 3 and 5 Ton sizes also available with centrifugal blower. All with high ratings at extra-competitive prices!

New Self-Contained Air Conditioning Units: 2 and 3 Ton sizes provide easier, more flexible installations with condenser intake and discharge through a common grille at the same end; connections for cooling and return air are on opposite end. U.L. Listed for flush-to-wall indoor or unsheltered outdoor installation. Separate condenser and evaporator blowers and motors. Priced for volume business! 2 Ton — 23,000 Btu/Hr, 3 Ton — 35,000 Btu/Hr!

New Oil Winter A. C. Units with High Air Deliveries: Three sizes — 84,000, 95,000 and 112,000 Btu output — are completely assembled and internally wired at the Luxaire factory. All have extra-capacity blowers for the easy addition of cooling without changing the standard equipment blower.

Proven construction features — round combustion chamber with refractory firebox, large rectangular radiator and long flue travel — provide quiet, efficient operation.

All sizes are available in the handsomely styled cabinet with vestibule and concealing panels or with the burner exposed.

The new, low prices will amaze you!

New Electric Winter Air Conditioning Units: Four sizes — 17.4, 23.2, 29.0 and 34.8 Kilowatts (60,000, 80,000, 100,000 and 120,000 Btu output) — afford a complete line. Using electric energy as fuel, these new Luxaire Units provide (1) Heating, (2) Ventilation, (3) Filtration and (4) Humidification, if desired — every winter air conditioning advantage, when connected to ducts and registers.

In addition, because of the big, standard-equipment blower, Luxaire Summer Air Conditioning is readily added at any time.

If you are located in an area where electricity is a competitive heating fuel, Luxaire Electric Furnaces are priced to make you extra-competitive!

More Complete and Competitive than Ever... WITH NEW LOW PRICES!

The biggest, best, most complete line of Heating and Air Conditioning units in Luxaire history — unit by unit, designed and constructed to satisfy the needs of your individual market!

This is Luxaire's challenge and your opportunity for more profitable business in 1961!

Luxaire has reduced 1961 prices, where they count — on the most wanted units and with new units that will increase your business!

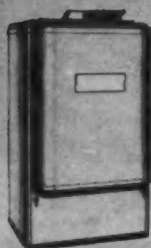
Thanks to better design and production methods, Luxaire can continue to stress the qualities that count — heavy construction, uncomplicated design and excellent, trouble-free performance!

In 1961, as never before, it is unnecessary for you to overlook these desirable qualities when seeking low prices. For, more than ever before, Luxaire offers more of these qualities that your customers value — priced to keep you competitive!

In addition, with Luxaire you enjoy the extra service and convenience of wholesale distribution — the competitive price without the disadvantage of your capital tied-up in a big inventory!

See your Luxaire jobber, today!

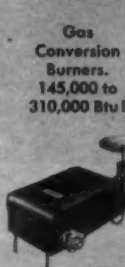
YEAR 'ROUND UNITS, UNIT HEATERS, CONVERSION BURNERS, COOLING, COAL FURNACES!



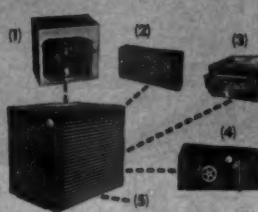
Year 'Round Combination Air Conditioning Units.
2, 3, 4, 5 Tons — Air Cooled.
2, 3, 5 Tons — Water Cooled.
105,000 to 175,000 Btu — Gas.
84,000 to 140,000 Btu — Oil.



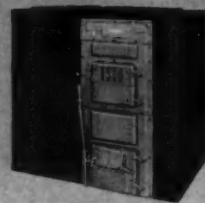
Gas Fired Unit Heaters.
5 Sizes: 60,000 to 240,000 Btu!



Gas Conversion Burners.
145,000 to 310,000 Btu!



2, 3, 4 and 5 Ton Split-System Summer Air Conditioning Units. Upflow, Horizontal, Counterflow Cooling Coils and Blower-Coil Units!



Coal Burning Furnaces.
22" to 27" — Forced Air.
20" to 27" — Gravity!

THE *Luxaire* C. A. OLSEN MANUFACTURING COMPANY • ELYRIA, OHIO
HEATING & AIR CONDITIONING UNITS



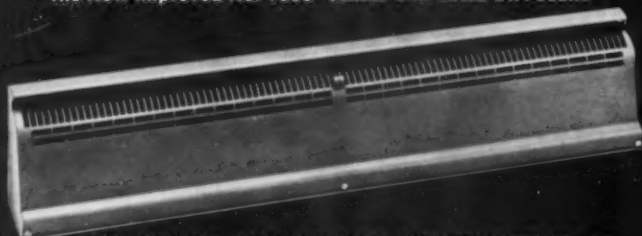
PRESENTS THE BEST

REGISTERS—GRILLES and DIFFUSERS

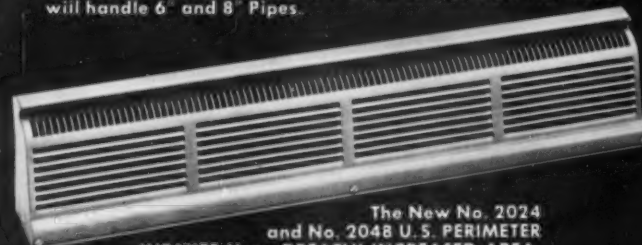
New FILTER GRILLES and Frames to Follow

The ELITE of ALL PERIMETER DIFFUSERS
Base Board and Floor Diffuser Styles

The New Improved No. 1000 SERIES U.S. BASE DIFFUSERS



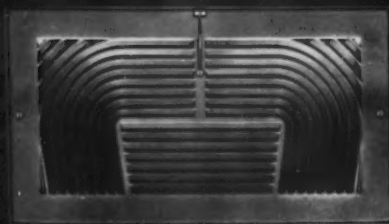
This NEW No. 1024 U.S. BASE DIFFUSER Now has an EXTRA ROW of OBLONG OPENINGS. Now you can use it with 4" — 4½" — 5" or 6" ROUND SUPPLY PIPES. The NEW No. 1048 will handle 6" and 8" Pipes.



The New No. 2024 and No. 2048 U.S. PERIMETER INTAKES Have GREATLY INCREASED AREA.



The No. 1018 (18" length) U.S. Base Diffuser is Designed for Perimeter Systems where Shorter Lengths are Required for Lower Cost.



No. 105 U.S. DIFFUSER SIDEWALL REGISTER

The "LITTLE GIANT" for PERIMETER SYSTEMS. DIFFUSES a FULL SUNBURST PATTERN—A COMPLETE 180° of EVEN AIR FLOW at Every Degree of DIFFUSION. LEAST RESISTANCE — MOST POWERFUL of DIFFUSERS. No. 106 is the Out-of-Wall BASE STYLE—SAME DESIGN AS No. 105.

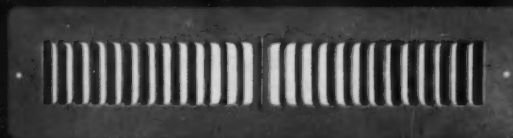
No. 410 U.S. DIFFUSER FLOOR REGISTER



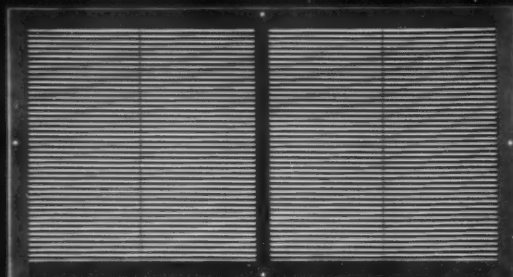
WIDER MARGINS to Cover CRACKAGE due to over-sized Floor Openings. GRADUATED CURVED GRID-BARS to Permit Wide Perfect Even Air Diffusion. Sector-LEVER OPERATOR.



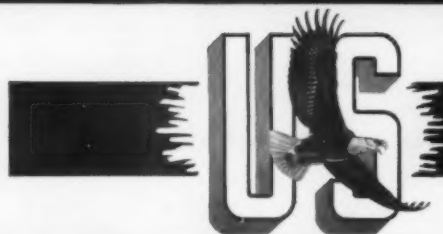
No. 413 STAMPAIRE Floor Diffuser with Stamped Face for Competitive Project Systems where QUALITY is also Required, which High Quality is still maintained in the No. 413 StampAire. Made in six sizes.



No. 313 STAMPAIRE Toe Plate for use in Kitchens, Bathrooms, Closets, and Stair Risers where space is limited.



No. 177 U.S. A-C GRILLE — 22° Bar Setting for ALL TYPES of Forced Air and Perimeter SYSTEMS. TIE-BAR ELIMINATES all AIR VELOCITY NOISE.



Write for Your New Catalog "A"

UNITED STATES

BATTLE CREEK, MICHIGAN •

for 1961 Sales Success!

THAT SURPASS ALL IN QUALITY—ECONOMY—SERVICE

Also New Open Space Grilles. Write for Folder.

**New SINGLE-VALVE A-C
REGISTERS with Tie-Bar**



**No. 153 AIR
CONDITIONING REGISTER**—New Tie-Bar
stops vibration sounds. Safe to use on
higher velocity jobs. Note the new
"Scoop-Type" Single Valve.



**No. 165 AIR
CONDITIONING BASE REGISTER**—New
Tie-Bar Construction stops all Vibration
Sounds—Increases Register Strength.
Note Standard sizes with "Scoop-
Type" Single Valves.



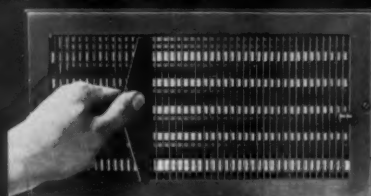
**No. 175 A-C BASE
INTAKE**— $7\frac{1}{2}$ " extension With New Tie-
Bar Feature Eliminates High Velocity Air-
Noise Created by other makes. **RESULTS
WILL PROVE IT.**



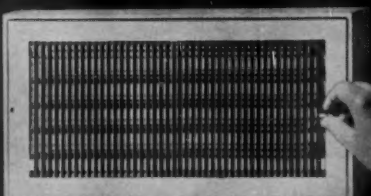
**No. 177 A-C
VENT**—Has the same
Tie-Bar Feature that Prevents those High
Velocity Air Noises, and also Provides
Increased Strength.



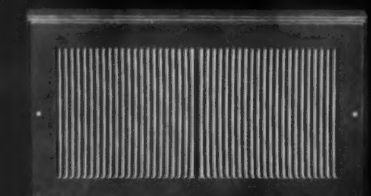
**New MULTIPLE-VALVE A-C REGISTERS:
INTAKE-Vents to Match 22" Right and
Left Grille Bar Setting.**



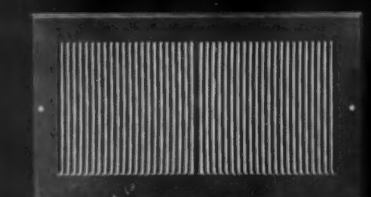
**No. 256 A-C REGISTER Multi-VALVE Four-
Way Deflection — LEVER OPERATED —
BALANCING SET-LOCK. Side Wall Type.**



**No. 267 One-piece A-C BASE REGISTER
—FOUR WAY DEFLECTION—LEVER OPER-
ATED—BALANCING SET-LOCK.**



**No. 176 A-C BASE INTAKE To MATCH
DESIGN of Nos. 256 and 267 A-C REG-
ISTERS. $7\frac{1}{2}$ " BASE EXTENSION.**



**No. 178 A-C VENT to Match Design of
Nos. 256 and 267 A-C REGISTERS.**



**No. 190 U.S. MULTI-FLEX Series Opposed-
Valve Registers—THE SILENT-WONDER
LINE.**



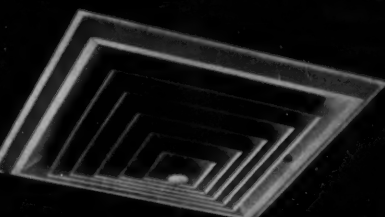
**No. 190 MULTI-FLEX Register FOUR-WAY
FLOW. Opposed Valves Screw-Drive
Operated.**



**No. 192-L MULTI-FLEX Register PARAL-
LEL-VALVE LEVER-OPERATED.**



**No. 1500 Round CEILING DIFFUSER
showing Damper Knob Operator which
controls the No. 1800 ButterFly Damper.
Knob is Removable.**



**No. 2500 SQUARE CEILING DIFFUSER
Stepped-Down Style May be supplied
with No. 2800 Knob-Operated Square
ButterFly Damper. Knob is Removable.**



**Be sure to visit Space 1032 at the Chicago Air
Conditioning Show in February**

REGISTER COMPANY

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You can tell a Metalbestos Man
By the Gas Vent Calculator he uses!

This handy new pocket computer is the only device of its kind to give correct answers in seconds to the most complicated vent design questions. Who's it for? Why the man who installs Metalbestos, of course! It allows him to make his "take-offs" on the spot, give fast accurate bid estimates, save precious minutes on the job. Just one more scientific selling tool from Metalbestos — it's yours without charge.

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WILLIAM WALLACE COMPANY
 BELMONT, CALIFORNIA

MANUFACTURING PLANTS IN BELMONT, CALIF. • LOGAN, OHIO





Quiet Elegance - Finest Quality

We are proud to present our **GOLDEN BEAUTY** and **SILVER SPLENDOR** thermostats.

First in decorator design that complements any room decor. Soft, rich blending of colors.

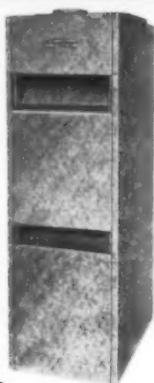
Easily read...easily set. And precision performance in the CAM-STAT tradition of fine quality.

Multiple contacts for continuous self-cleaning...Available for millivolt service...Suitable for gas, oil or stoker heating system...With or without adjustable heater. Also available soon in combination heating and cooling.

CAM-STAT

DIVISION OF THE PAUL HENRY CO. • LOS ANGELES, CALIF.

HERE'S A FULL LINE FOR



GUB
Upflow
50,000 to 200,000 BTUH
Air Conditioning Furnace
75,000 to 150,000 BTUH



GCA
Downflow
75,000 to 150,000 BTUH

GAS-FIRED FURNACES



GLA
Basement
75,000 to 300,000 BTUH



GHA
Horizontal
85,000 to 150,000 BTUH



GG
Gravity
90,000 to 145,000 BTUH

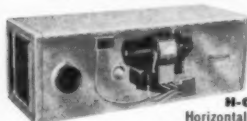


U-OB
Upflow
84,000 to 140,000 BTUH



CF-OB
Downflow
84,000 to 140,000 BTUH

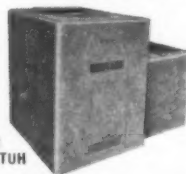
OIL-FIRED FURNACES



H-OB
Horizontal
84,000 to 252,000 BTUH



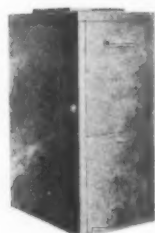
L-OB
Basement
84,000 to 140,000 BTUH



B-1100
Basement
388,000 BTUH



1300-B
Basement
196,000 BTUH



ELECTRIC FURNACES

41,000 to 82,000 BTUH

EUS (Upflow) for use with 2-, 3-ton cooling unit
EUL (Upflow) for use with 5-ton cooling unit
ECS (Downflow) for use with 2-, 3-ton cooling unit
ECL (Downflow) for use with 5-ton cooling unit

These units come completely assembled, ready to connect up.

SUPPLEMENTARY ELECTRIC HEATER



SH 4, 8, 12 & 16 KW,
13,600 to 54,700 Btu. A step-by-step, cut-in unit for use with ACPR Heat Pump where extra heating is needed.

Top-rated American-Standard Warm Air Heating & Air Conditioning Distributors serve dealers from coast to coast. And these distributors are specialists—selected because of their experience, dependability and outstanding service. For the finest

in warm air heating and air conditioning equipment and controls, just call the American-Standard Air Conditioning Division Distributor nearest you; he maintains an adequate inventory of products for your needs, and he will deliver promptly.

FULL PROFITS...DISTRIBUTED NATION-WIDE BY HEATING AND AIR CONDITIONING SPECIALISTS

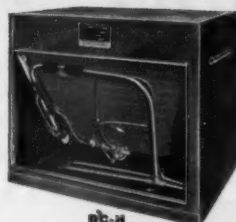
AIR-COOLED AIR CONDITIONERS

Split System Evaporators

American-Standard offers the industry's most complete line of air conditioning equipment, both split systems and packaged units. The RC-B evaporator, with its universal blower, can be mounted with its own ductwork or used where a furnace has insufficient blower capacity. The three "add-on" evaporators at right offer complete versatility of installation to a dealer.



RC-B
Horizontal with Universal Blower
21,600 to 88,000 BTUH



RC-H
Horizontal
21,600 to 56,300 BTUH



RC-V
Vertical
22,000 to 56,300 BTUH



RC-C
Counterflow
21,600 to 31,300 BTUH

SPLIT SYSTEM CONDENSER



AC-B
Outside Unit
2, 3, 4, 5 & 7½ HP

SELF-CONTAINED PACKAGED UNIT

ACP

The ACP is a complete, self-contained air conditioner with high-capacity blower. It is designed for installation in attic, breezeway, utility room, basement, crawl space, through-the-wall or outdoors. 2, 3, 4 & 5 HP



ACPR

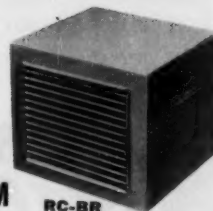
PACKAGED UNIT
Packaged Unit 2, 3, 4 & 5 HP

HEAT PUMPS



AC-BR
Outside Unit
3 & 5 HP

SPLIT SYSTEM



RC-BR
Inside Unit w/
Universal Blower

Get the data sheets and price lists on these units today—your American-Standard Air Conditioning Division Distributor has them.



American-Standard and Standard® are trademarks of American Radiator & Standard Sanitary Corporation

AMERICAN-Standard

AIR CONDITIONING DIVISION

if you have a **PULLEY PROBLEM...**



has the answer

**ZATKO IS THE WORLD'S
LARGEST MANUFACTURER
OF STAMPED STEEL**

ONE PIECE PULLEYS

No question about it! If you're beset by pulley problems, the easiest and most economical solution is to turn them over to Zatko.

We've built a reputation throughout the industry for making the most durable pulleys at the most reasonable cost — a reflection on our constant, exhaustive factory testing program to assure trouble-free operation under any conditions. Zatko pulleys are performance-proved. Millions are in use on widely varied installations. Let us demonstrate the versatility and durability of Zatko pulleys to your satisfaction. Write us now for more information.

...and use famous Zatko "Silentride" fractional horsepower belts for quiet, high performance. Perfect mates for Zatko pulleys.



Zatko Metal Products Co.
20850 ST. CLAIR AVENUE • CLEVELAND 17, OHIO

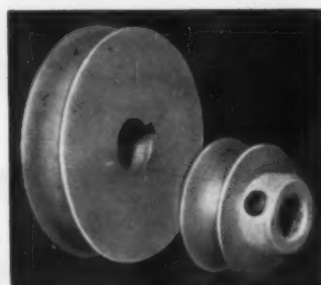
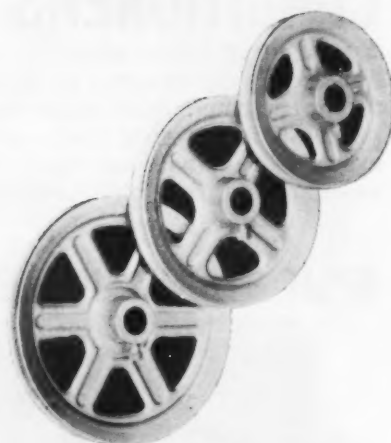
ZATKO SALES REPRESENTATIVES:

W. E. Dean & Co.
2656 Freewood Drive
Dallas, Texas
D. D. Darnell & Co.
8 Mission State Bank
Bldg.
Mission, Kansas

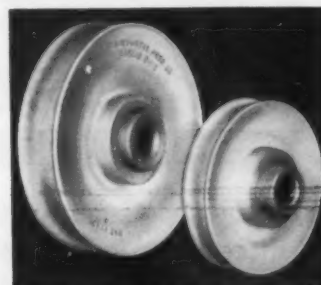
The Sales Engineers
6524 Walker St.
Minneapolis, Minn.
W. A. Ingermann
2920 Iowa Ave.
Connersville, Indiana

Vincent E. Devine
730 Brooke Circle
Morton, Pa.
F. P. Gibbons
2019 Brown Rd.
Lakewood, Ohio

Glenn M. Stevenson Co.
9046 Sunset Blvd.
Los Angeles, Calif.
Ed Lokay & Co.
10338 N.E. Sandy Blvd.
Portland, Oregon



BAR STOCK PULLEYS — Made of steel bar stock. Plain finish and furnished with hollowhead screws.



VARIABLE PITCH PULLEYS — furnished with hollowhead set screws. Aluminum finish. OD's 3 1/4", 3 1/2", 4".

Missing a GOOD DEAL from your DEALERSHIP?



If *service, personal help* and *honest-to-goodness profit* are just words in the dictionary and *not* what you're actually getting, here's a right-up-your-alley suggestion:

Take a good look at International! . . .

Find out what it means to work close with a company that wants to work close with *you*...

Find out the sales and service benefits of having a distributor and/or company representative stationed right in your area, *instantly available* when needed . . .

Find out how the open line of communication between your International distributor and the company's home office can give you swift, decisive action on any sales or service problem . . .

And best of all, find out how satisfying it is (and how profitable) to do business with a firm that's *big enough* to bring you all that's newest and best in heating and cooling; *small enough* to regard your business as though it were top-priority (which it is!!)

Send today for full details from International, the company that puts the *good deal* in your dealership. Write International Heater Co., Dept. A-11, Utica, N.Y.

NEW!

ELECTRIC
FURNACE
60-80,000
BTU

See it, and the many
other International
headliners at the
Chicago Show.



GAS AND OIL HEATING
COOLING
ELECTRIC FURNACES
AND HEAT PUMPS



HEATING
COOLING

MONCRIEF

FOR MORE THAN 65 YEARS

FOR THE DEPENDABLE, RELIABLE COMPLETE LINE

DESIGNED RIGHT... BUILT RIGHT... PRICED LOWER FOR 1961

For 1961, Moncrief gives you the most complete and competitive line in more than 65 years of manufacturing high calibre Furnaces and Air Conditioning Units... priced to make Moncrief Dealers successful.

Moncrief prices for 1961 are lower, more competitive than ever... adjusted to help you surpass your competition... lower without penalizing any of the excellent qualities you expect with Moncrief. Instead, Moncrief's reduced prices are made possible by increased manufacturing efficiency.

If you expect 1961 to be as competitive as 1960, so does Moncrief. And Moncrief has anticipated your needs not only with

lower prices, but also with sensational new products, designed to increase the scope of your business.

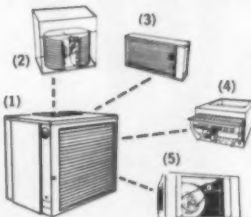
Wherever you are located, Moncrief offers a complete selection of the type of units you need, and in the sizes you need, to fulfill the demands of your market.

So why not profit from Moncrief's know-how in design, in manufacturing and in matching the needs of your market?

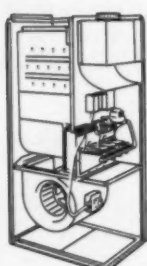
With Moncrief, the capacity to offer excellence at the price of cheap construction is your advantage. And you can enjoy this competitive power without the expense of a big inventory.

Call your Moncrief Wholesaler, now.

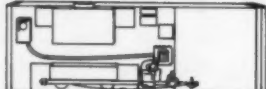
MORE... BETTER GAS FIRED UNITS... PLUS OIL, COAL AND COOLING



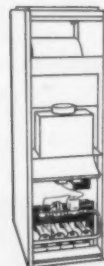
COMPLETE LINE
 (1) 2, 3, 4 or 5 Ton Air Cooled Condensing Units
 (2) Plenum Evaporator Coil
 (3) Duct Evaporator Coil
 (4) Counterflow Evaporator
 (5) Blower-Evaporator Unit



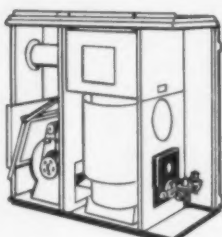
COMPLETE LINE
 Assembled and Wired Winter Air Conditioners with High Air Handling
 Gas: 75,000 - 200,000 Btu
 Oil: 78,400 and 112,000 Btu




COMPLETE LINE
 Low and Compact Horizontal Furnaces with High Air Handling
 Gas: 80,000 - 140,000 Btu...
 Oil: 89,600 - 224,000 Btu



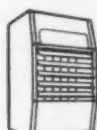
COMPLETE LINE
 Counterflow Winter Air Conditioners
 Gas: 75,000 - 150,000 Btu...
 Oil: 78,400 - 123,200 Btu




COMPLETE LINE
 Gas or Oil Fired Basement Winter Air Conditioners
 Gas: 105,000 - 260,000 Btu
 Oil: 84,000 - 224,000 Btu



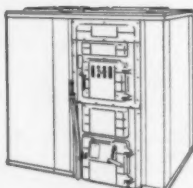
COMPLETE LINE
 Combination Year Round Air Conditioners
 Air Cooled:
 2, 3, 4 or 5 Tons
 Water Cooled:
 2, 3 or 5 Tons
 Gas: 100,000 - 175,000 Btu
 Oil: 84,000 - 140,000 Btu



COMPLETE LINE
 Gas Fired Unit Heaters
 5 Sizes: 60,000 - 240,000 Btu



COMPLETE LINE
 Gas Conversion Burners
 3 Sizes:
 145,000 - 310,000 Btu



COMPLETE LINE
 Coal Fired Furnaces
 Winter Air Conditioner: 22", 24", 27"
 Gravity Furnace: 20", 22", 24", 27"

FOR EXCELLENCE AT THE PRICE OF CHEAP CONSTRUCTION

SUREFIT®

Everything you need in excellent Pipe, Elbows, Duct, Stack and Fittings... fashioned to save you installation time, priced to save you plenty.

Ask your Surefit Wholesaler for the new, easy-to-use catalog, or write.

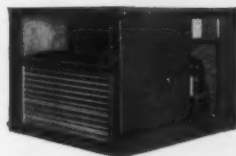


YOUR YARDSTICK FOR THE FINEST FURNACES AND AIR CONDITIONING UNITS

FOR THE BEST OF THE NEWEST AT NEW LOW PRICES

NEW AIR COOLED SUMMER AIR CONDITIONERS

New 2 or 3 Ton
Self-Contained
Unit . . . Con-
denser Intake
and Discharge
from same end



Opposite end
of Self-Con-
tained Unit . . .
Conditioning
Air Intake
and Discharge
from same end

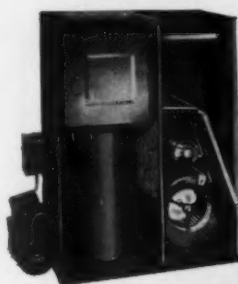


New Air Cooled
Condensing
Units in new
3 and 5 Ton
sizes . . .
Low-Velocity
Top Discharge

● You get easier installation and top performance with the new 2 Ton (23,000 Btu/Hr) and 3 Ton (35,000 Btu/Hr) Moncrief Self-Contained Units. Condenser air intake and discharge are on the same end and conditioned air intake and discharge on opposite end. Approved for flush-to-wall indoor installation or unsheltered outdoor installation.

Addition of new 3 and 5 Ton sizes gives you a full line of 2, 3, 4 and 5 Ton Moncrief Condensing Units . . . an outstanding success with low-velocity, top discharge from propeller fan; rugged outdoor construction; high capacities.

NEW OIL FIRED WINTER AIR CONDITIONERS



Interior of
Furnace with
Burner Exposed
. . . Round
Combustion
Chamber, Large
Radiator, Large
Capacity
Blower.

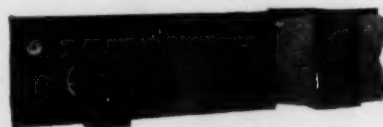


Furnace with
Burner Concealed
. . . Plenum
Evaporator Coil
added . . . High Air
Handling Capacity

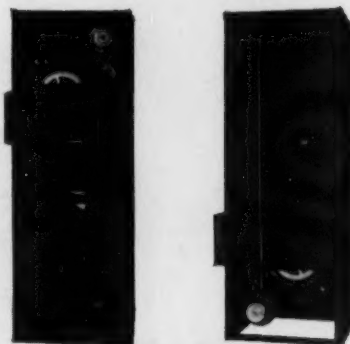
● This new series of Moncrief Oil Fired Winter Air Conditioning Units — 84,000, 95,000 and 112,000 Btu output — combines modern styling and high air handling capacities with the proven reliability of the heavy-gauge Moncrief Heat Exchanger.

Quiet, trouble-free performance is achieved with the round combustion chamber, refractory firebox, rectangular radiator and long flue travel. The extra-large Blower, furnished as standard equipment, permits most capacities of Cooling to be added with standard blower.

NEW ELECTRIC WINTER AIR CONDITIONERS



Interior of Furnace with Duct Evaporator
Coil added, showing Blower Chamber
and Electric Element Cartridges



Right, Electric Furnace in Upflow Position.
Left, in Counterflow Position.
Same Unit can be installed as Upflow,
Counterflow or Horizontal Furnace.

● Manufactured by Moncrief, these new Electric Furnaces are designed for installation with ducts and registers and have every advantage for complete Winter Air Conditioning — heating with ventilating air; filtration; humidification and fresh air intake, if desired.

Four sizes — 60,000, 80,000, 100,000 or 120,000 Btu output (17.4, 23.2, 29.0 or 34.8 Kilowatts) — give you a complete line.

Every size can be installed as either an Up-flow, Horizontal or Counterflow Unit and has a large-capacity blower for the easy addition of Summer Cooling.

FOR EASY, CONVENIENT BUYING FROM WHOLESALE SUPPLIERS

MONCRIEF

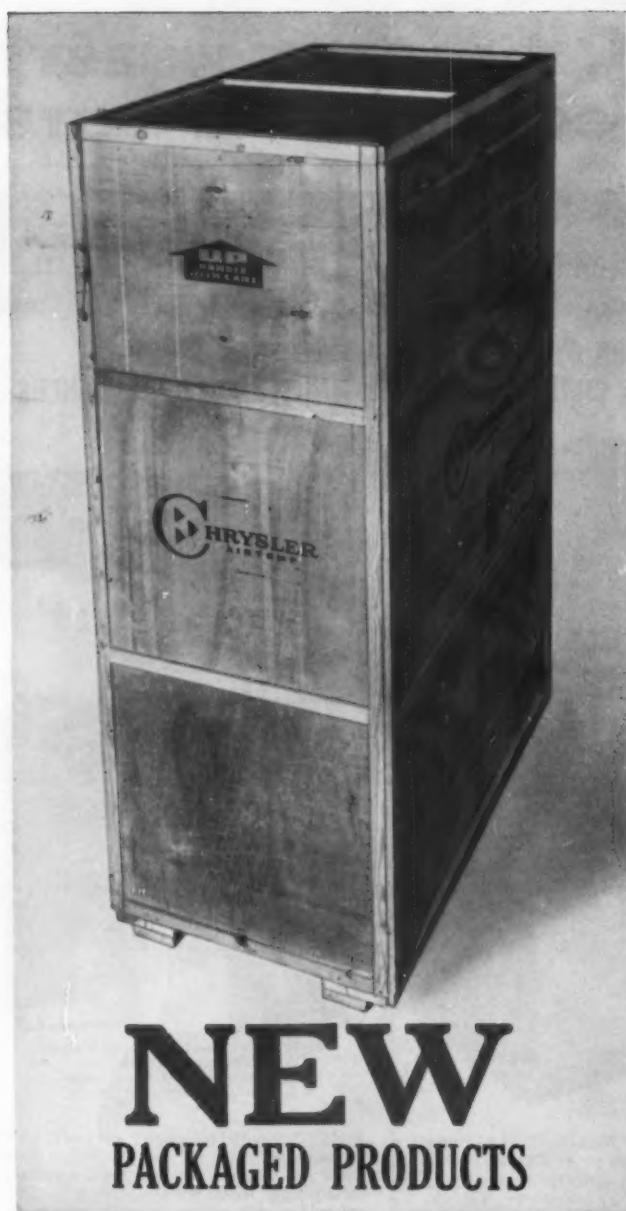
THE HENRY FURNACE

MONCRIEF
SINCE 1895

COMPANY • MEDINA, OHIO

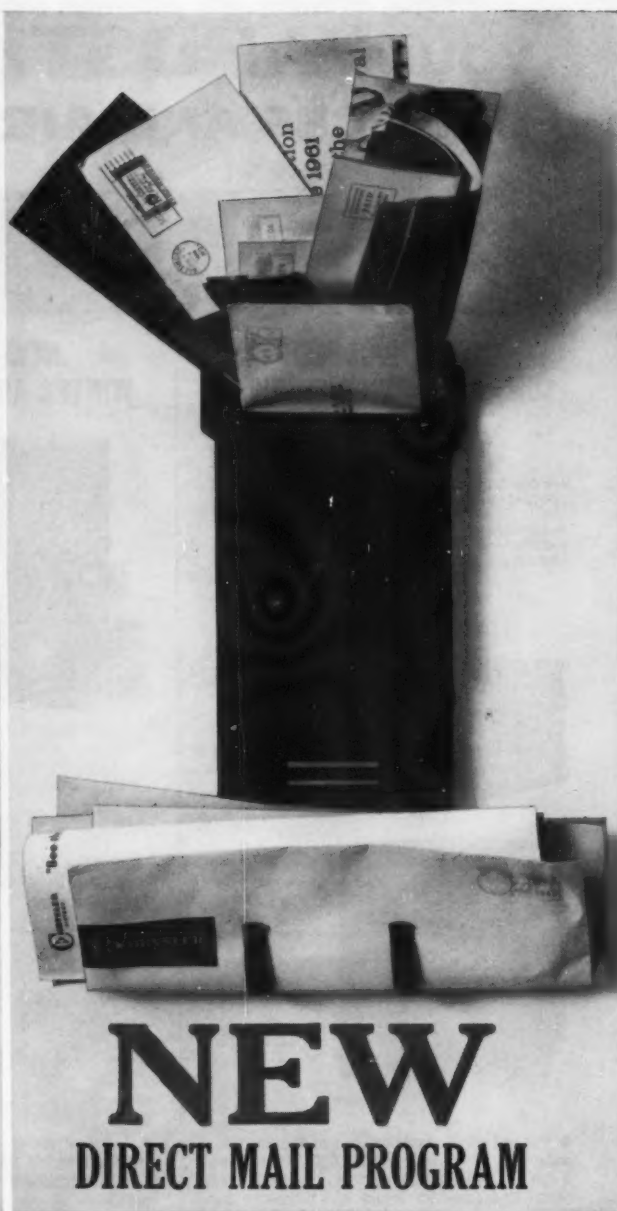
HEATING AND AIR CONDITIONING UNITS

FURNACE PIPE AND FITTINGS



NEW PACKAGED PRODUCTS

Three new large capacity air-cooled condensing units, new 22,000 BTUH air-cooled condensing unit, plus a new heat pump...they've all been added to the Chrysler line for '61. Chrysler has long been known for the most complete line of packaged air conditioning products in the industry. Now you have even greater freedom of choice from 22,000 to 420,000 BTUH. Your Chrysler Distributor has all the data now.



NEW DIRECT MAIL PROGRAM

You'll capture a bigger share of your residential add-on air conditioning market with this new low-cost, high-powered direct mail program. Choose from two complete 3-piece packages . . . each designed to hit your best prospects . . . at the best time for profitable early-season sales. Now's the time to get in on the program. Want more information? Call your Chrysler Air Conditioning Distributor today.

4 NEW REASONS WHY YOUR FUTURE IS MORE



NEW SALES INCENTIVE PROGRAM

Everybody wins with Chrysler in '61. For every capacity-rated ton of Chrysler heating and air conditioning equipment you sell, you earn prize points. They're redeemable for the handsomest assortment of merchandise and most luxurious trips you've ever seen. Regardless of the size of your business, you cash in every time you sell Chrysler. Call your Chrysler Air Conditioning Distributor for details.



NEW MODEL HOME PROMOTION KIT

Want to cash in on multiple-unit furnace and air conditioning sales to project builders? Chrysler's new Model Home Promotion Kit gives you solid support. The Kit has everything needed for selling in a model home. Builders will love it—because it helps move their houses faster. And so will you—because it's a real clincher to your selling story. Ask your Chrysler Distributor to show you a sample.

PROFITABLE WITH **C** **HRYSLER**
AIRTEMP

Chrysler Corporation, Airtemp Division, Dept. J-11, 1600 Webster Ave., Dayton 4, Ohio



COMBINATION PATTERN
No. U412, 12" only.

SNIPS FOR EVERY SERVICE



HEAVY DUTY PATTERN
No. U416, 16" only.



CIRCULAR CUTTING PATTERN
No. T412, 12" & T47, 7".

STANDARD PATTERN, No. S410
Seven other sizes, 7" to 14".



AVIATION SNIPS, No. V19R
Right Hand, Cuts to left.

AVIATION SNIPS, V19L
Left hand, cuts to right.



NEOPRENE INSULATING SLEEVES
Available for all Aviation Snips. Here shown
on No. V19S, straight cut.

Crescent 'Tinner's' Snips are forged of selected steel and blades ground on special grinding machines. They are hardened by Crescent's own selective induction process to insure long, satisfactory service. These easy-cutting, well-balanced snips are made in four patterns; standard, circular cutting, combination and heavy duty.

Sold by hardware dealers and industrial distributors everywhere.

AVIATION SNIPS. Keenly ground, hard, tough alloy steel blades with machine serrations...can be factory reground. Compound leverage produces tremendous shearing power. Three patterns.

CRESCENT TOOLS

Give Wings to Work

*Sign of the Artisan
Symbol of Excellence*



Crescent is our trade-mark, registered in the United States and abroad, for wrenches and other tools. Sold by leading distributors and retailers everywhere and made only by
CRESCENT TOOL COMPANY, JAMESTOWN, NEW YORK

the quality tells... the quality sells

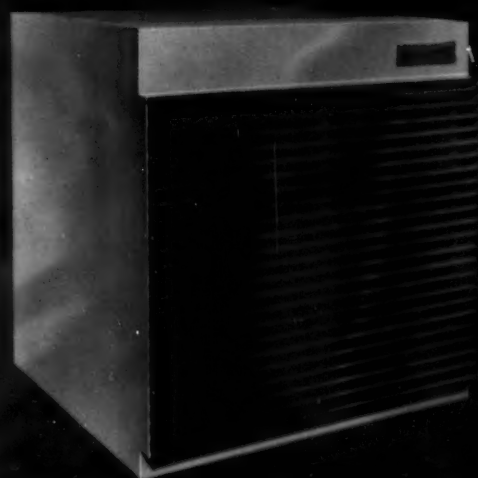
new **JANITROL**
WIN-SUM-MATIC

**year 'round
air conditioner**



COMPACT...

Fits in as little as 3 1/2 square feet!
Features Dura-Tube Gas Heating Heart
and powerful air-cooled cooling.



WIRE US COLLECT FOR PROOF

WESTERN UNION

HARRY C. GURNEY, General Sales Manager,
Janitrol Heating and Air Conditioning,
A Division of Midland-Ross Corporation,
Columbus 16, Ohio

RUSH ME FACTS ON JANITROL'S
SELECT DEALER PROGRAM.

Name

Address

City

State

THE PROFIT PARADE IN THE 60'S WILL BE LED BY JANITROL SELECT DEALERS!

Paced by the exclusive *Janitrol Select Dealer Plan* that gives you action in place of promises... adds vital new depth and dimension to your *Growth and Profit Future!*

check-out the highlights!

- 1 **The Finest Factory Technical Training Program** in the industry... tuition-free for Select Dealers!
- 2 **Personalized Dealer Management Services**... expert guidance in all phases of management, including sales training, recruiting, accounting, advertising, and engineering available to Select Dealers at no cost!
- 3 **Dealer Information Service**... authoritative newsletters, bulletins and periodicals keep Select Dealers up to date on latest developments in equipment, applications, service and merchandising slants!
- 4 **Regular Regional Meetings**... bring Select Dealers and Janitrol personnel together for stimulating discussions of merchandising, management, engineering and other subjects pertinent to dealer growth and profit!
- 5 **Liberal Dealer Stocking Plans**... assure the equipment required by Select Dealers will be on hand when needed.
- 6 **Free Retail Salesman Training and Aids**... Janitrol helps recruit and train salesmen for Select Dealers. Provides proven, sales-clinching presentation manuals for cooling, heating and new home builder selling!
- 7 **Protected Territories**... Select Dealer Franchises in any market area are limited. No "free-wheeling" franchising to choke off profits!
- 8 **Powerful Planned Co-op Advertising**... a year-round program of hard-hitting local level advertising and promotion prepared for you by experts!
- 9 **Powerful National Advertising**... to create demand in your own local market for Janitrol products—back up your sales and promotion activities!
- 10 **Promotion Package Worth \$300.00**... for newly franchised Select Dealers. Includes illuminated signs, floor and window displays, colorful literature, demonstration kits, etc.
- 11 **Yellow Page Telephone Listings**... reserved for you, as a Select Dealer, in your own local phone book under the JANITROL headings.

12 **Competitive Pricing**... made possible by famous Janitrol advanced engineering and new automated production lines. Puts Select Dealers in the driver's seat with quality at low cost!

13 **The Top Brand Name**... Janitrol leadership in design and quality is nationally recognized and acclaimed. Over two million Janitrol units have been sold!

14 **A Great Line... A Complete Line** featuring the Win-Sum-Matic, finest of a fine line!



The Janitrol Win-Sum-Matic Year 'Round conditioner brings you years-ahead features and performance... plus the industry's greatest selection of quality accessories for custom-designed comfort systems to boost your profits! Built for time-saving installation and backed by a 20-year warranty on the heat exchanger. Operates year 'round with the quiet thriftiness of clean gas heat and powerful air cooling. New slim-trim styling; warm two-tone colors; and exclusive design features packed with sales appeal!

The all-new Series 52 condensing unit is featured as the cooling system for the Win-Sum-Matic. Attractively styled, weatherproof and safe. Top-mounted, upflow fan boosts performance... operates with outside temperature to 125°F.

Other quality products in Janitrol's full line include Oil and Gas-Fired furnaces in horizontal, vertical and counter-flow models... plus a special line of competitive equipment built for the high volume, new home market! In cooling, Janitrol covers the residential and commercial markets with economical, self-contained units; add-on, modernization units and a completely new series of air-cooled condensing units. Janitrol Unit heaters, duct furnaces and schoolroom conditioners blanket the industrial heating market with a wide selection of models from 30,000 up to 1,750,000 Btu inputs.

You owe it to yourself to get the full story on Janitrol's full line... plus the fabulous Janitrol SELECT DEALER PLAN! WIRE COLLECT RIGHT AWAY!

FOR SOARING PROFITS IN THE SIXTIES, JOIN THE JANITROL SELECT DEALER GROUP! WIRE COLLECT FOR COMPLETE INFORMATION, ABSOLUTELY WITHOUT OBLIGATION...

JANITROL

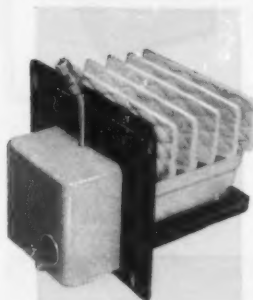
HEATING AND AIR CONDITIONING

A Division of Midland-Ross Corporation
Columbus 16, Ohio • In Canada: Moffats Ltd., Toronto 15

Skuttle

..... offers you the most complete line of Humidifiers and Filters!

MODEL 711 Counter-Balanced Humidifier



This highly efficient, low-priced unit requires one installation, one adjustment. It is shipped completely assembled with 5 Vapoglas plates and stainless steel plate rack. The Model 711 is compact, easily installed, trouble-free, and is self compensating for all water pressures. This compact unit can be a sales leader for you in 1960.

SKUTTLE PATENTED VAPOGLAS PLATES are made of compressed pure glass wool. They are porous (taking up to as much as 70% more water per pound than ordinary filter plates) and resist clogging longer. Available in packages of 5.



SKUTTLE HUMIDEX TABLETS contain ingredients that prevent destructive elements present in domestic water supplies from adhering to the surfaces of any humidifier. Economical package of twelve lasts an entire heating season, under normal conditions.

MODEL 600-B Humidifier

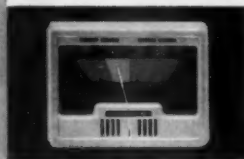


The Model 600-B can be used with sloping bonnets or straight plenums in gravity or forced air furnaces. The pan and leak-proof blown glass float are standard with 5 No. 490 Vapoglas Plates. This model assures constant, effective humidity. Output can be increased by adding up to 20 Vapoglas Plates.



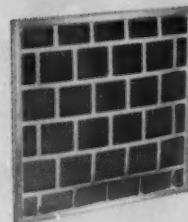
MODEL 900 Cormaire

THE NEW PACKAGE HUMIDIFICATION SYSTEM. This high quality, flexible unit is designed to provide controlled humidification during the entire heating season. It uses 20 Vapoglas plates in a corrosion resistant evaporating pan. Used as a Vapoglas plate humidifier, the Model 900 usually provides adequate humidity in the spring and fall. As a controlled humidifier, the output can be increased by setting the cycling switch that controls the electric heating element. This switch is standard equipment on the Cormaire. As a completely automatic humidifier, the Cormaire is placed in the plenum, and a relay transformer and humidistat are added as optional equipment. As an added feature, a Hygrometer is furnished with every Model 900 Cormaire.



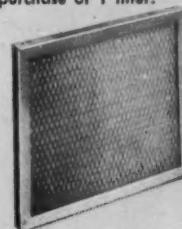
NEW LOW-COST **Dust-ban** FILTER

The electrostatic action of Skuttle Dust-ban Filters guarantees the removal of dust, dirt and pollen particles, yet allows the free flow of air for maximum heating or cooling efficiency. They are completely washable and never need oiling. 6 popular sizes, \$4.95 each.



FREE Filter Gage (value \$1.95) is your tie-in for increased sales. Your customers will receive a free Skuttle filter gage with the purchase of 2 Skuttle Dust-ban filters or \$1.00 with the purchase of 1 filter.

SKUTTLE-AIRE HEAVY DUTY FILTERS. Designed for heavy duty commercial and industrial applications, as well as domestic heating and cooling systems, these sturdily built filters are easily washed with cold water and never need oiling.



Skuttle

MANUFACTURING COMPANY

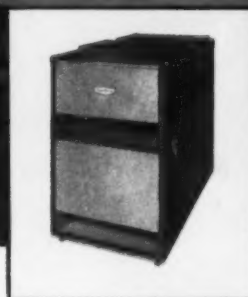
Milford, Michigan

IN CANADA: WAIT SKUTTLE CO., OAKVILLE, ONT.

GAS LOBOY *Front Flue*
100-150,000



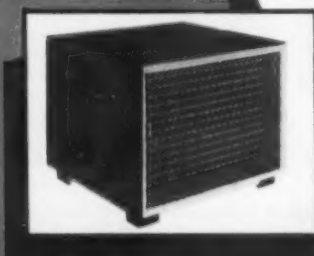
GAS LOBOY *Rear Flue*
90-210,000



GAS HIBOY
75-200,000



AIR CONDITIONING
2-3-4-5 H.P.



THE FULL LINE



GAS HORIZONTAL
75-200,000



GAS GRAVITY
85-135,000

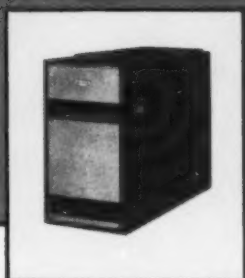


See page 163 for new Burnham Gas Counterflo.

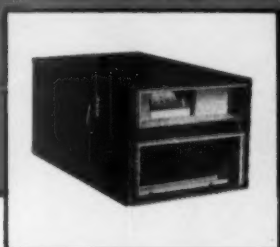
You can expect the best - if it's Burnham

BURNHAM CORPORATION
WARM AIR & COOLING DIVISION
BELLE VERNON, PA.

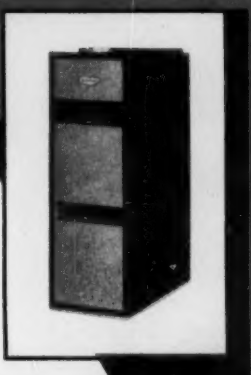
OIL LOBOY Rear Flue
84-224,000



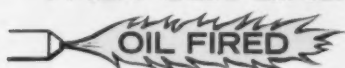
AIR CONDITIONING
2-3-4-5 H.P.



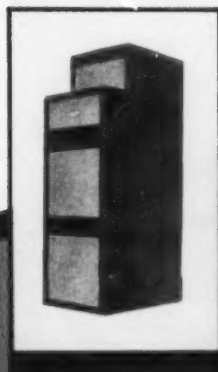
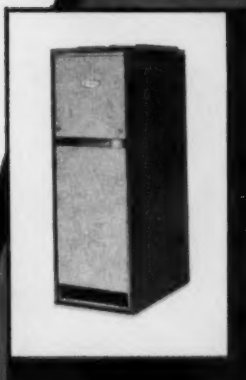
OIL HIBOY
84-140,000



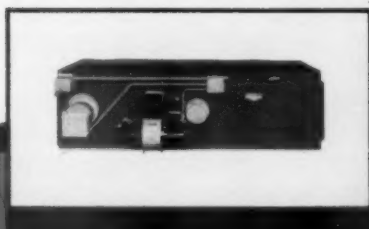
THE FULL LINE



OIL COUNTERFLO
84-112,000



PLENUM FOR SPLIT SYSTEM
AIR CONDITIONING
2-3-4-5 H.P.



OIL HORIZONTAL
84-224,000

the Best in Heating and Cooling

BURNHAM CORPORATION

WARM AIR & COOLING DIVISION
BELLE VERNON, PA.



For any installation requiring liquid recirculation or removal

You name the installation . . . there's a Little Giant pump or pump unit to do the job!

Little Giant's compact condensate unit is the most economical and efficient on the market. It operates silently and is easy to install . . . Our automatically controlled humidifier provides heating installations with an effective means for humidification . . . Our portable "basement bailer" can be installed anywhere seepage is a problem. All Little Giant pumps are economical to operate and easy to install. Every pump, made to exacting requirements, can be supplied to a variety of jobs where low pressure, high volume is required. LITTLE GIANT SEALED PUMPS OPERATE WHEN COMPLETELY UNDER WATER.

For additional information, prices and specifications, contact:



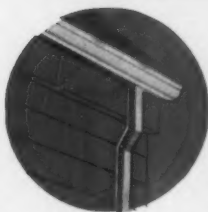
ILLUSTRATED: NO. 2-HOODED.


Little Giant
P U M P C O M P A N Y

A Division of Little Giant Corporation
3810 N. Tulsa, Oklahoma City

FOLLANSBEE

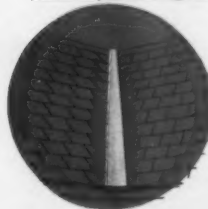
Seamless TERNE



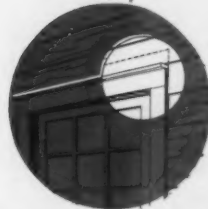
gutter and downspout



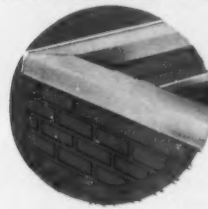
chimney flashings



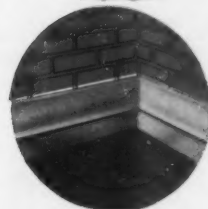
valley



window and door flashing



copings



flashings

the roofing metal you'll like working with . . . Follansbee Terne

Follansbee Terne, the oldest new roofing metal in use today, has characteristics which make it the most suitable metal you can work with in roofing and weathersealing work. The reasons for its superiority are simple. For example:

Follansbee Terne is easy to work

Terne is a very ductile metal, forms easily with both mechanical and hand tools.

Terne is easy to solder, its tin-lead alloy coating forms a perfect soldered joint.

Terne requires no special surface treatment or special primer and can be painted immediately.

Terne comes in eleven different widths, from 4" to 28". You'll save money by saving shearing time.

Terne requires fewer expansion joints, because it expands and contracts less than other roofing metals. Thus it can be installed in greater lengths before expansion joints are necessary. Installation costs are reduced.

Follansbee Terne Performs Better, Gives You a Better Job

Terne lasts a lifetime, a fact proved many times over. There are installations of Terne that have been in service well over 100 years—a record no other roofing metal can match!

Terne need not be painted as often, a fact that building owners will appreciate. Terne's coating is perfect for painting, makes an excellent bond with paint.

Terne can be painted any color, any time, an important advantage to color-conscious owners who want color in such things as gutters and downspouts and on the complete roof—and like the fact that color can be changed at will.

Terne expands and contracts less, and thus moves less with changes in temperature—joints and seams stay tight.

Follansbee Terne is a profitable line

Terne is competitively priced and offers an excellent profit to both the sheet metal distributor and contractor.

You'll like working with Follansbee Terne for many reasons—all of which make for a better, more profitable job for you.

FOLLANSBEE

STEEL CORPORATION

Follansbee, West Virginia • Sales Offices in Principal Cities

If you are going to the NRCA Show in New Orleans in January stop in to see us . . . our Booth No. is 75.

Build More Heating and Cooling Profits With E-Z-ON Damper Regulators

Use E-Z-ONS to cut installation time, eliminate extra work and make it possible for you to handle a greater volume of business... with increased profits.

E-Z-ON HALF SET (Not Illustrated)

$\frac{3}{8}$ " bearing, 100 per box. Consists of: No. 27 standard threaded head piece and wing nut. Identical to No. 27 full set less solid tail piece.



E-Z-ON damper regulators cost you less-per-unit... to do a better job... quicker. An important reason *why* they're used on *more* and *more* jobs. Speedy E-Z-ONS permit on the job assembly, require only a hammer for quick installation... can cut your damper make up time by 60%.

**NO RIVETS!
NO DRILLING!** **NO SCREWS!
NO EXTRA OPERATIONS!**

Simply position 16 gauge E-Z-ON regulator on damper by sliding over scribed line. Specially designed Automatic Slot Opener permits instant assembly of regulator to damper. Sharp prongs can pierce 22 gauge steel.



E-Z-ON FEATURES:

- Double Prongs Mean Double-Grip. No chance of swiveling.
- Washer is Permanently Attached. No loose washer to drop or fall in pipe.
- Modern "Sweep" Wing Nut is Eye-appealing. Adds new beauty to installations.
- Balanced Construction. Prevents possible binding of damper in duct.
- Lower Price... Means lower cost to you.

In high velocity systems E-Z-ON Regulators can be used on dampers as small as $3\frac{1}{4}$ " dia. or the HALF-SET can be used if desired. E-Z-ON Regulators work equally well on round or rectangular volume and splitter type dampers.

E-Z-ONS IDEAL FOR AIR CONDITIONING

With the indicating handle, E-Z-ONS permit simple damper changing from winter to summer settings.

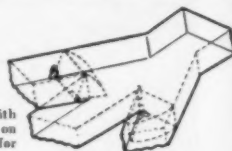
FAMOUS E-Z-ON STANDARD DESIGN No. 27

$\frac{3}{8}$ " bearing, dozen to a box. Consists of: solid end tail piece, threaded head piece and wing nut. Made of 16 gauge steel and heavily plated. E-Z-ON prongs are strong enough to pierce 22 gauge metal.

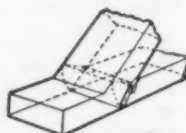
SUPERIOR E-Z-ON "SNAP-TITE" DESIGN No. 29

$\frac{3}{8}$ " bearing, dozen to a box. Consists of: tail piece with retractable snap end bearing, threaded head piece and wing nut. This eliminates need to bend damper or spring duct to insert damper. Made of 16 gauge steel, heavily zinc plated.

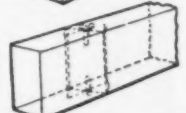
Dampers installed with E-Z-ON Regulators on one side or edge for branch ducts.



Slitter Damper attached at edge with E-Z-ON Damper Regulator.



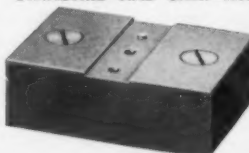
Volume Damper, with E-Z-ON centered at each end.



E-Z-ON Damper Regulator fastened to small damper with headpiece only.

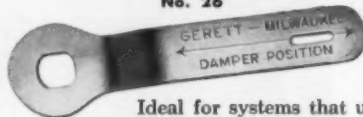


STANDARD AND SNAP-TITE SETTING ANVIL



Saves time assembling regulators, operating on the principle of a rivet set. Can also be used in kick or power press. Completely sets and fastens a unit in one operation. Of hardened steel. Weight $1\frac{1}{4}$ lbs., size 1" thick, 2" wide, 3" long — complete with fastening screws.

INDICATOR HANDLE No. 26



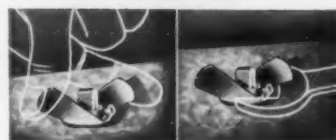
Ideal for systems that use same ducts for heating and cooling because it clearly shows damper position... can be turned to summer or winter setting. Made of 19 gauge steel, heavily zinc plated. Small slot in end allows use as a tool to engage tongue of regulator in place of pliers.

M. A. GERETT CORP.

724 WINNEBAGO STREET, MILWAUKEE 5, WIS.

STANDARD E-Z-ON No. 27
Illustration actual size
Patent No. 2,285,829

"SNAP-TITE"
E-Z-ON No. 29
Illustration actual size
Patent No. 2,342,877



USE FINGERS or WRENCH

Fine S.A.E. type thread together with the large clamping surface on the wing nut assures positive damper locking.

**E-Z-ONS... built for
speed and profits**

- Precision formed on automatic machinery
- Hot-dipped in zinc after formation
- Also galvanized sheet elbows
- Absolutely guaranteed to fit any standard size pipe



CINNATI

CONDUCTOR ELBOWS & SHOES

ask
your
jobber



THE CINNATI ELBOW CO.

4750 MADISON RD. ■ CINCINNATI 27, OHIO

when You STOCK the
complete *Autoflo* line...

Sales Zoom

THE FABULOUS

NEW PERMANENT—WASHABLE

AIR FILTER



zips off... washes in a jiffy!

BUILT-IN GERM KILLING POWER



Easy to handle. No irritating glass or metal particles. Made of miracle Polyurathane.

Washes like a towel... never needs oiling. Exclusive double-wall design.

FAMOUS '150' HUMIDIFIER

The "150" requires NO SERVICING other than occasional cleaning because there are no moving parts to adjust, stick or wear out. Fits all furnaces, every type of bonnet, simple to install. Comes complete with plates and fittings.

FURNACE POWER HUMIDIFIER

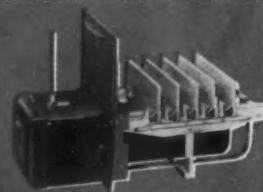
Efficient high capacity unit adds humidity in pure vapor form to even largest homes. When furnace blower comes on, humidifier fan and recirculating pump go to work! 110 volt A.C., no drain connections, no drain problems. Humidistat package available.

PORTABLE POWER HUMIDIFIER

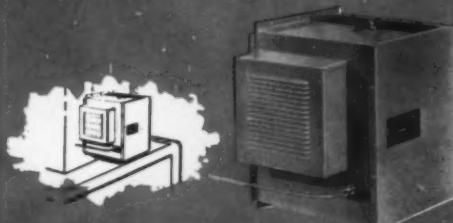
Handsome portable distributes humidity in pure vapor form. High capacity 110 volt A.C. unit has simple pushbutton controls. Built-in humidistat. Humidifies even the largest homes. Attractive cabinet blends with any decore.

low cost FAIRWAY HUMIDIFIER

Best low-cost humidifier on the market today. First in simplicity, efficiency, economy. One model fits all furnaces, comes complete with 5 evaporator plates and all fittings.



World's fastest selling unit!



extra performance for small or large homes



high capacity when and where you need it



Expertly engineered for trouble-free performance

Autoflo

CORPORATION

Detroit 39, Michigan

IN CANADA: 1305 Windsor — Windsor, Ontario

FUEL OIL FILTERS



Standard and King size. Finest cartridge available.

EVAPORATOR PLATES



Unbreakable, last longer. Universal size.



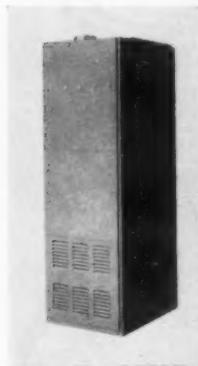
Gas-fired upflow.
Sizes:
77000-154000 Btu.



Gas-fired downflow. Sizes:
77000-154000 Btu.



Oil-fired upflow.
Sizes:
84000-134000 Btu.



Oil-fired downflow. Sizes:
84000-134000 Btu.



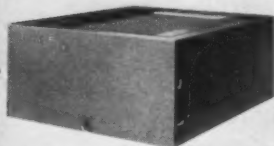
Oil or gas-fired horizontal.
Sizes: Oil, 84000-140000 Btu;
Gas, 80000-140000 Btu.



Bonnet cooling coil unit.
2, 3, 5-ton sizes.



Duct cooling coil unit. 2, 3,
5, 7½-ton sizes.



Downflow cooling coil unit. 2, 3, 5-ton sizes.



Fan-coil unit. 2, 3, 5 and
7-ton sizes.

Self-Contained Climate Changer.
3, 5, 7½, 10 and 15-ton units.
Also commercial units 20, 25,
30, 40 and 50-ton sizes.



Now! A complete Trane furnace line...with matched cooling units for any job!

Build your future in the residential-commercial field by becoming a Trane Authorized Source!

Now TRANE—the people who have air conditioned *everything* from skyscrapers to jet planes to subway trains—brings you a complete line of heating and air conditioning equipment for homes and small commercial jobs. Here are the types and sizes of furnaces you want and matched cooling units—a quality line at competitive prices.

As a Trane Authorized Source, you enjoy these advantages:

- Association with a leading manufacturer, known nationally for its excellence of engineering and research.
- Complete line of competitively priced heating-cooling equipment for residential and commercial applications.
- Assurance of product dependability, simplified installation, trouble-free operation.
- On-the-spot assistance; 100 sales offices, plus a nationwide network of warehouses for quick delivery.
- National and local advertising support; promotional material and point-of-sale aids.

Most important, as a TRANE Authorized Source, you will be in a position to take full advantage of the rapidly growing home air conditioning market. That's because TRANE is a recognized leader in air conditioning... specializing exclusively in the field of heating-cooling-ventilating. And, you will be confident that TRANE will provide you with the newest developments in air conditioning equipment.

When you plan your future in the residential and commercial heating-air conditioning field, talk to TRANE! For complete information, just call your nearby TRANE Sales Office. Or write TRANE, La Crosse, Wisconsin.

For any air condition, turn to

TRANE

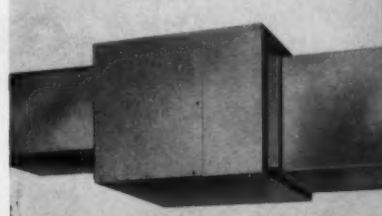
MANUFACTURING ENGINEERS OF AIR CONDITIONING,
HEATING, VENTILATING AND HEAT TRANSFER EQUIPMENT

THE TRANE COMPANY, LA CROSSE, WIS. • SCRANTON MFG. DIV., SCRANTON, PA. • CLARKSVILLE MFG. DIV., CLARKSVILLE, TENN. • TRANE COMPANY OF CANADA, LIMITED, TORONTO • 100 U.S. AND 19 CANADIAN OFFICES

Refrigeration unit for TRANE Climate Changers is air cooled. Sizes: 2, 3, 4, 5 and 7½ tons.



New TRANE Heat Pump. Air-to-air type, 2, 3, 5, 7½ hp; water-to-air, 3, 5, 7½, 10 and 15-ton sizes.



Put in YOUR Thumb

Little Jack Horner
Sat in a corner
Looking for something real
(good, that is)
He put in his thumbs
And pulled out **THREE** plums
Then said, "General's the **BEST DEAL!**"



General Filters' products are plums in the hot air heating business. They can be installed and "renewed" on regular service calls—"pulling out plums" of

extra profits without increased selling effort or travel time. Have your service car supplied at all times and help yourself to these plums.

General's "ALL FEATURES" FUEL OIL FILTERS

Performance proved over the years. Life-time iron and steel construction. Corrosion resistant plastic coating. Wool felt elements bonded to center mesh core traps dirt and moisture. Two sizes fit **ALL** plants.

General's "MOISTURE-MATIC" HUMIDIFIER

Simple, safe, compact, automatic, it really "minds its own business." Life-time neoprene diaphragm. No float to stick, clog, or rust. Corrosion-proof pan. Chrome-plated valve. One-year guarantee on parts. Installs in 30 minutes.

General's "CLEAN RIGHT" SOOT REMOVER

Works in every type heating plant—oil, wood, gas, coal. Saves up to 25% in heating costs. Fast acting and safe—no flash, no flare, no intense heat. Won't harm burner parts. Light, powdery—can be sprayed or "spooned". Use on every call!



Ask Your Jobber for these **GF** Products
GENERAL FILTERS, INC.

43800 GRAND RIVER AVENUE

NOVI, MICHIGAN

IN CANADA: Canadian General Filters, Ltd., 39 Crockford Blvd., Scarborough, Ont.



HEIL FURNACE SALES ARE UP...

... Total Industry Furnace Sales Are DOWN*
HEIL GAS FURNACE SALES ... UP 96.1%
HEIL OIL FURNACE SALES ... UP 90.9%

THERE MUST BE A REASON...

HEIL furnace sales were up in 1960 despite the downward national trend because HEIL offers GREATER VALUE! Today, more than ever before, your customers are looking for value — a good furnace at a good price. You must have value in your Furnace and Merchandising Program to increase your sales in 1961. Visit our booths in the Shows listed below for the complete value story on the HOTTEST LINE IN THE FURNACE INDUSTRY. Ask for your Division Manager by name ... WRITE, WIRE OR CALL US TODAY!

*Industry figures show:

Gas Furnace Sales DOWN 12.7%

Oil Furnace Sales DOWN 29.3%

These figures secured from:

Gas Appliance Manufacturers Association
and the Oil Heat Institute of America



HEIL-QUAKER

647 THOMPSON LANE • NASHVILLE, TENNESSEE

NATIONAL HOME BUILDERS SHOW

CHICAGO • Jan. 29 — Feb. 2 • McCormick Place • Space 826

INTERNATIONAL HEATING AND AIR CONDITIONING EXPOSITION

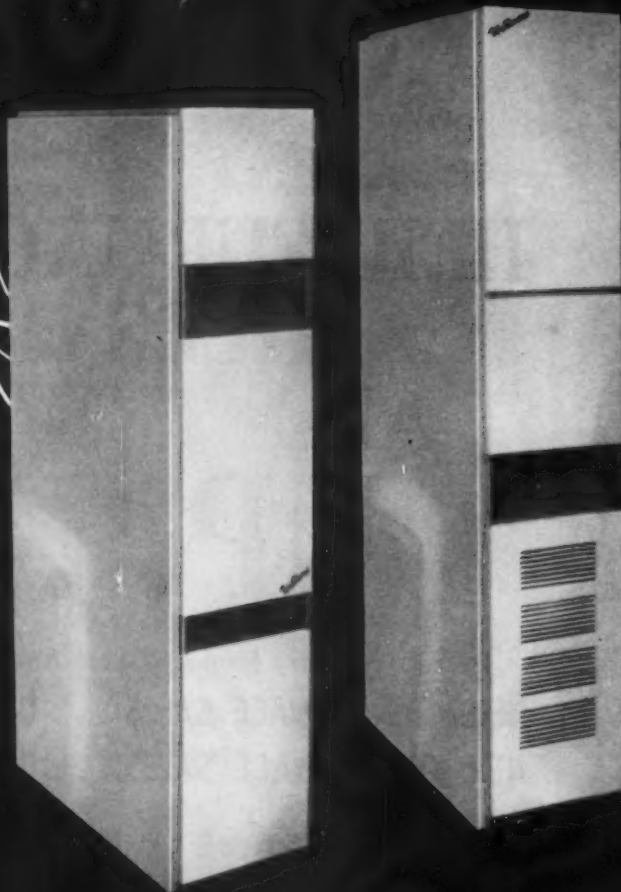
CHICAGO • Feb. 13-16 • International Amphitheatre • Space 129-131

• TOM MITCHELL
Midwest Division Mgr.

• FRED ZWANZIG
Eastern Division Mgr.

• FRANK LEAVITT
Southern Division Mgr.

Corporation



Williams

GAS-O-MATIC 800 Series

UP-FLOW MODELS

Six sizes — 60, 80, 100, 120, 140 and 160 thousand BTU. Cabinets on the 60 and 80,000 BTU sizes are just 12" wide, 25½" deep and 54" high; 100 and 120,000 BTU sizes are same depth and height and only 20" wide, while 140 and 160,000 BTU sizes measure 26" by 29½" by 59".

Optional return air drop, a perfect match in dimensions and finish to the furnace cabinet, adds a fine finishing touch on basement installations.

DOWN-FLOW MODELS

Six sizes — 60, 80, 100, 120, 140, and 160 thousand BTU. Cabinets on 60 and 80,000 BTU sizes are just 12" wide, 25½" deep and 59" high; 100 and 120,000 BTU models are same depth and height and only 20" wide; 140 and 160,000 BTU models measure only 26" x 30" x 68".



amazingly compact cabinets mean new ease of installation and new freedom in heating system layout



smartly-styled, two-tone tan and white cabinets



blowers and drives available to handle all air moving requirements for both air conditioning and heating



new high efficiency heat exchanger design minimizes corrosion caused by uneven heating

BETTER FURNACES...IN SO MANY WAYS
for the heating contractor, the home builder and the home owner

dramatically new
GAS FURNACES...
from the oldest name
in automatic heating



Williams

GAS-O-MATIC 800 Series

BASEMENT MODELS

Five sizes — 80, 100, 120, 140, and 160 thousand BTU. All sizes stand just 38 1/4" high. Cabinets on 80, 100, and 120,000 BTU models are 20" wide and 45 1/2" deep; 140 and 160,000 BTU models are 26" wide and 52" deep.



- * unusually small flue connections (4" on 60 and 80,000 BTU models, 5" on 100 and 120,000 BTU models and 6" on 140,000 and 160,000 BTU models) mean significant savings on chimney costs and greater flexibility in furnace location
- * maintenance-free stainless steel ribbon-type burners
- * permanent washable-type filters included as standard equipment
- * shipped completely assembled and wired, ready for installation

For complete details and prices on dramatically new Williams Gas-O-Matic 800 Series up-flow, down-flow and basement model furnaces write to:

WILLIAMS

HOME HEATING AND COOLING UNITS

WILLIAMS OIL-O-MATIC HEATING CO., COLUMBUS 12, OHIO

A Division of National Union Electric Corporation





WIDEST SHEET SELECTION

At Ryerson you choose from the nation's largest and most diversified stocks—available to meet your most exacting needs.



TECHNICAL HELP

Your Ryerson representative gives you an unbiased recommendation—helps you select the best material for each job, whether carbon or stainless steel, aluminum or PVC.



SUPPORTING MATERIAL

Rod, bar, tubing, angles, beams, hexes, squares—everything necessary to do a complete job is available at Ryerson.

RYERSON CHECK LIST FOR SHEET METAL USERS

Steel Sheets

Galvanized, galvanized, cold rolled and stretcher leveled, hot rolled pickled and oiled, stainless, vitreous enameling, long terme, expanded metal and grating, perforated, etc.

Steel Bars & Shapes

Plain and galvanized angle iron, stainless, etc.

Steel Tubing

Seamless and welded mechanical tubing; structural tubing—square, rectangular and round; stainless tubing, pipe and fittings.

Aluminum

Duct sheets, building sheets, and many other alloys; perforated, expanded and embossed sheets. Rod, bar and tubing. Structural and extruded shapes. Architectural shapes and building products.

PVC

Ryertex®-Omicron PVC sheets, rod, tubing, pipe and fittings.

Machinery

Shears, lockformers, bending rolls, press brakes. Also equipment for punching, drilling, grinding, welding, etc.

Storage and Handling Equipment

Hoists, trolleys, sheet and coil lifters, storage racks, etc.



EQUIPMENT NEEDS

Maybe a newer, better tool can effect more economical, more productive operation. Ryerson has a complete selection and specialists who know your problems.



DEPENDABLE DELIVERY

Fast shipment on all your requirements—finest care in handling and packaging. Any quantity—when you need it.



BE "METALLOGICAL"

All of Ryerson's many advantages add up to this assurance: Optimum Value for Every Purchasing Dollar year in and year out. So be "Metallogical"—Call Ryerson.



STEEL • ALUMINUM • PLASTICS • METALWORKING MACHINERY

RYERSON STEEL®

Joseph T. Ryerson & Son, Inc., Member of the INLAND Steel Family

PLANT SERVICE CENTERS: BOSTON • BUFFALO • CHARLOTTE • CHICAGO • CINCINNATI • CLEVELAND • DALLAS • DETROIT • HOUSTON • INDIANAPOLIS
LOS ANGELES • MILWAUKEE • NEW YORK • PHILADELPHIA • PITTSBURGH • ST. LOUIS • SAN FRANCISCO • SEATTLE • SPOKANE • WALLINGFORD

Put New Year's Resolutions on Monthly Basis

JANUARY IS THE CONVENTIONAL MONTH in which many of us make resolutions for the coming year. It's true that many of these resolutions are broken soon after they've been made—perhaps because the idea of having to abide by them for 8760 hours makes us cast aside our good intentions.

One way to avoid the necessity of sticking to a resolution for a whole year is to make a different resolution for each month. Following are some suggestions for this year's resolutions:

January—Analyze the Business Month.

Review the 1960 operating statement, 1960 financial statement, outstanding accounts, business policies, and set sales objectives for 1961.

February—Review Job Records Month

Determine burden of doing business (overhead) and method of applying it to various types of work.

March—Spring Sales Promotion Month

Stir up those prospects that cooled off last fall and during the winter, when you suggested modernization. Use American Artisan's Standards for Rating Heating Systems.

April—Make Every Employee a Salesman Month

Get the office, shop service, installation and sales crews together and show them how they can assure themselves better incomes by selling the company and its products.

May—Summer Air Conditioning Sales Promotion Month

Start advertising that your company is THE company to install systems and equipment that will provide comfort throughout the hot months just ahead. Use American Artisan's Standards for Rating Residential Cooling Systems.

June—Collection Month

Go after those slow-to-pay accounts. You'll need cash to see you through the busy months ahead. Use personal letters and phone calls to clear up accounts over 60 days old.

July—Dress Up the "Store" Month

Paint the building front, change the display windows, shuffle the display-room props and redecorate the office. Clean up the shop and stockroom.

August—Fall Sales Promotion Month

Tell your modernization prospects through direct mail, newspaper advertising, etc., that now's the time to prevent unavoidable delays and inconveniences that occur during the fall rush. Use American Artisan's Modernization Check-lists.

September—Stock Control Month

Check stock on hand, plan to use as much of it as possible, place orders for equipment needed to carry you through the rush season.

October—Public Relations Month

Engage in public interest functions (charity drives, celebrations, etc.); hold an open house for prospects and customers and, incidentally, dig up those slow-to-decide prospects.

November—Education Month

Plan to attend national conventions, factory training classes for dealer-contractors and employees. Hold training classes for your employees.

December—Accessories Sales Promotion Month

Let those on your prospect and satisfied-customer lists know about the variety of products you sell. Use American Artisan's Checklists.





MODERN RESTAURANTS utilize large glass areas to attract passing motorists. Good engineering of the air distribution system eliminates drafts over the booths located around the building's perimeter

Here's How Special Heating-Cooling

Installation utilizing two 250,000 Btuh furnaces, two 5 ton air conditioners with auxiliary unit was carefully designed to meet abnormal peak loads, prevent sweating of large windows facing street, keep cold air from falling on patrons, and avoid drafts in dining area

"I LIKE THE CHALLENGE that small commercial year 'round air conditioning work offers. Every job has something in common with other jobs, but there are enough variables to make each installation interesting to engineer, install, balance and check out under design conditions," says Mike Poja, Poja Heating Co., Milwaukee.

A recent installation made by the company was a roadside restaurant with a seating capacity of 125 persons on the first floor.

Handled All Phases of Job

All air handling equipment for heating, cooling, exhaust and makeup was installed by Poja Heating in the 60 × 70 ft build-

ing, which included a full size basement. For heating, two 250,000 Btuh input gas furnaces were used. For cooling, two 5-ton remote air cooled summer air conditioners were employed, one connected to the duct system attached to each furnace.

In addition to the two 5-ton cooling units provided for normal use, an additional 5-ton remote summer air conditioning unit — connected to a coil-blower-filter unit suspended from the ceiling of a storeroom — was used to handle abnormal heat loads occurring during peak periods on maximum temperature days.

This supplemental unit is controlled by a separate thermostat set two degrees higher than the

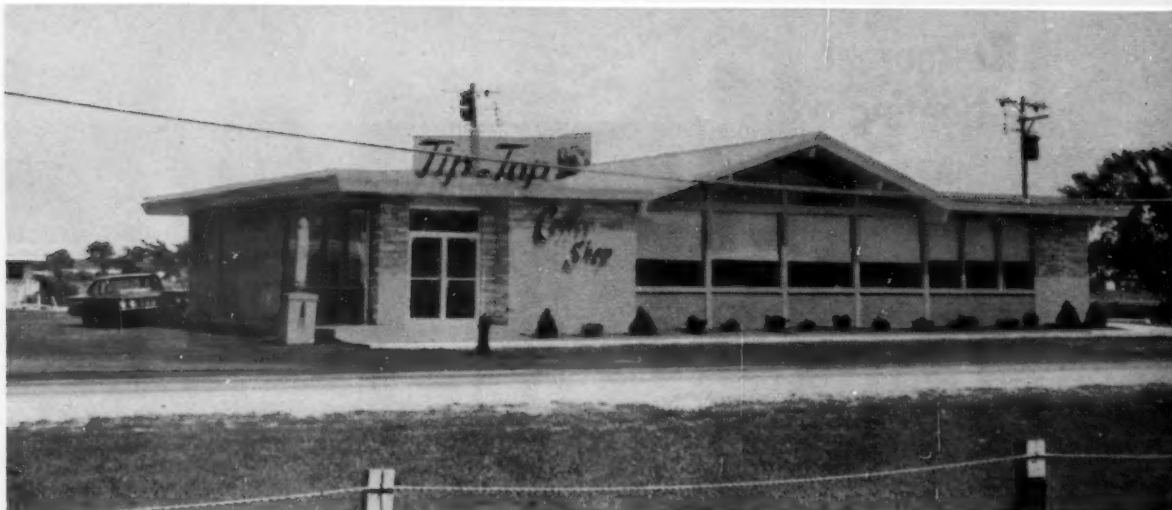
setting of the thermostats controlling the cooling equipment attached to the main air distribution system.

Each of the main air systems handles 2250 cfm for summer and winter operation. Of this air quantity, 10 percent is taken from outside and is used for makeup air to replace that being exhausted.

Drafts Are Avoided

Conditioned air from the supplemental summer air conditioner is discharged through a short duct and large register directly into the dining area.

Return air is collected for each of the three systems at ceiling locations that tend to avoid a sensa-



YEAR 'ROUND AIR CONDITIONING for small commercial installations has something in common with other jobs but offers interesting variables such as engineering, installation, balancing and checking out

Requirements of Restaurant Were Met

tion of draft to a patron.

Gravity roof ventilators located in the ceiling of each restroom exhaust all air supplied to these rooms. In addition to this air volume, 1400 cfm of air is exhausted from the dining area by bleeding into the kitchen, where two powered exhaust systems connected to hoods located over heat-creating equipment such as dishwasher, ranges, ovens, urns, steam table, etc., remove air containing undesirable heat and odors.

Handling Outside Air

Because the air volume exhausted from the kitchen area is in excess of that taken from the dining area, additional makeup air is supplied to the kitchen through a centrifugal blower type direct-fired unit heater with a capacity of 125,000 Btuh.

During summer operation, this blower takes in outside air, filters it and discharges it into the kitchen area without further conditioning. However, during the winter



AIR HANDLING EQUIPMENT (including heating unit and cooling coils) is mounted on concrete bases to obtain a level surface and provide maximum protection from movement of stored restaurant supplies within equipment room

Restaurant Heating and Cooling ... continued



STRIP DIFFUSERS utilizing velocities between 250 and 400 fpm provide a blanket of conditioned air against high heat transfer surfaces the year 'round

operation, the outside air is filtered and then discharged through the direct-fired unit heater, which tempers it before discharging it into the kitchen area.

An opening in the centrifugal blower compartment to this unit heater assembly permits a return of some of the kitchen air during winter operation so that the kitchen may be kept at any predetermined temperature between the time the restaurant is closed in the evening and its opening in the morning.

Perimeter air distribution is utilized throughout the dining area by the use of strip diffusers located in window sills, the supply of air being discharged upward to wipe the windows, preventing room air from becoming chilled and falling down the window where it would roll onto pa-

trons in booths placed around the perimeter of the dining area.

Windows Are Kept Clear

This method of distributing heated air over the glass wall areas has the advantage of preventing an accumulation of sweat on the inside of the windows during periods when the outside air temperature is lower than the dew point temperature of the inside air. By keeping the windows clear at all times, it becomes an asset for the restaurant owner since it permits passing motorists to notice the attractiveness of the inside of his establishment.

Discharge air velocity at the strip diffusers varies from 250 to 400 fpm, depending upon the air pattern required to wipe the exposed wall areas.

Branch ducts supplying the strip diffusers located in the window sills had to terminate close to the building's foundation walls in order to connect to vertical risers supplying the diffuser boots. To prevent chilling of the heated air supplied during the winter, and warming of air supplied in the summer, the risers were wrapped with a 2 in. blanket of insulation. The elbow at the end of the branch duct and the foundation wall was also protected against high heat loss or gain by packing the space with insulation.

Branch Ducts Dampened

Individual branch ducts were used to supply each strip diffuser rather than attempting to use one branch duct for more than one diffuser. It was felt that it would be more practical to control the air volumes required at each diffuser by dampers located at the branch takeoff from the trunk line rather than use dampers located at the diffuser.

The full-sized basement uses approximately 60 percent for storage, employee locker rooms and equipment rooms, and 40 percent for a large banquet room. Each of the rooms requiring an air supply (such as banquet and employee locker rooms) utilizes ceiling diffusers because the basement area is all below grade level.

Washroom and showers located in the basement each has its own power exhaust system, the air being taken from the locker room to make up the air volume exhausted.

Concrete Pad Mountings Used

All air moving, heating and cooling equipment installed in the equipment room was set upon a 3 in. thick concrete pad. The concrete foundation extended 1½ in. beyond the equipment on all sides.

Mr. Poja finds that by building such a concrete base, he not only provides a level surface to mount the equipment on, but can also use prefabricated vibration absorbers under the equipment.

By making the base larger than the equipment, it prevents employees from stacking boxes, crates and other supplies too close to the equipment, thus avoiding damage to its exterior finish.

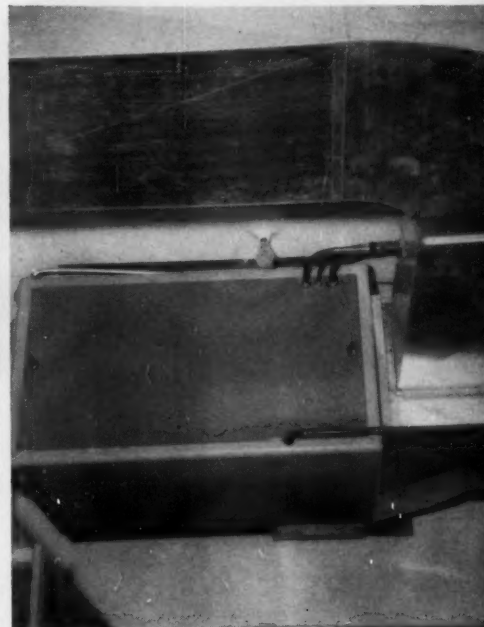
Plenum Dismantling Avoided

In fabricating the supply duct plenums, Mr. Poja planned that at some time in the future it might be necessary to examine or replace the cooling coils located in the first section of the supply trunk. To make this possible, he designed a flexible connection at the end of a duct transition between the cooling coil section and the beginning of the supply trunk.

At a point below the cooling section in the equipment plenum, he attached a sheet metal panel.



RETURN AIR GRILLES are located on inside walls near the ceiling to assist in preventing drafts in any part of the dining area



SUPPLEMENTAL summer air conditioning unit is activated during peak heat load periods

His feeling was that should it ever be necessary to remove the cooling coil, the sheet metal panel could be taken out of the plenum and the flexible connectors disconnected, making it possible to drop the cooling coil and transition piece to a position below the trunk duct.

This arrangement avoided any necessity for dismantling the entire plenum section.

Condensate drains from the cooling coil pans are $\frac{3}{4}$ in. black iron pipe, and terminate at a free discharge into a floor drain located near the air handling equipment.

Makeup air is supplied to each air handling unit from a common air intake located in the rear wall of the building. Dampers are located at each air handling unit so that proper fresh air volume to the units can be controlled.



SPECIAL PANELS built into supply air plenum can be taken out if it becomes necessary to remove a cooling coil. This avoids any necessity for dismantling the entire plenum



DUAL FRESH AIR INTAKE and combustion air supply is connected to a common weatherproof louvered outside grille



SELECTION of air cooled condensing unit location was based upon free movement of air to and from unit

... Restaurant Cooled by Small Packaged Units

The fresh air intake opening in the rear wall also contained a 90 deg elbow and a short duct with an open discharge for supplying the combustion air needed by the fuel burning equipment in the restaurant.

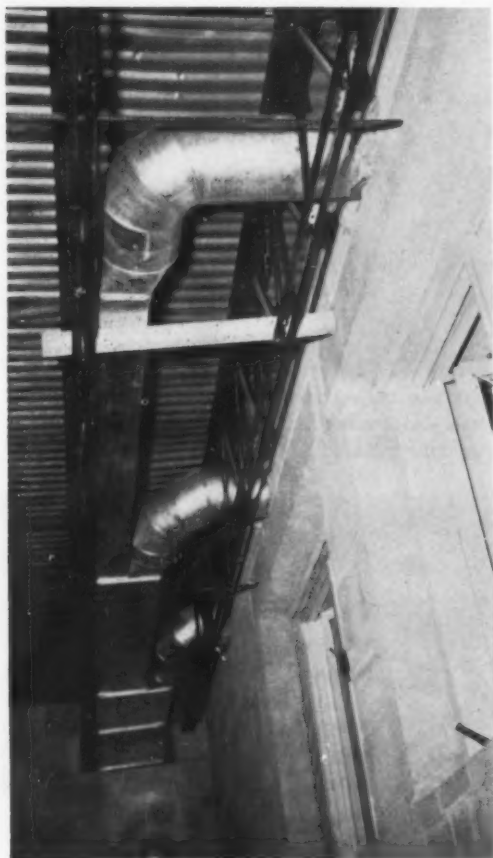
Condenser Air Supply

The three air-cooled remote summer air conditioning condensing units are located at the rear of the restaurant. Each unit was mounted on sound absorbing pads and so located that there was sufficient space between the nearest

wall and the equipment to permit free movement of air to and from the air-cooled condensers.

The location of the units also took advantage of permanent construction features that would prevent the stacking of cardboard boxes and other containers tending to block off air circulation to the units.

These construction features also protect refrigerant lines from damage due to carelessness that could occur when delivery people and employees do not understand the function of refrigerant lines and equipment.



WHERE BRANCH DUCTS penetrated foundation wall, insulation has been packed between the boot and the wall to prevent wall temperature having any effect on air temperature flowing through the duct

FREQUENT BRANCH TAKEOFFS provide good control over air flow to individual perimeter diffusers



PACKAGED HEAT PUMPS located on the roof provide zoned year 'round air conditioning for shopping center

How Heat Pumps Were Installed In a Shopping Center

Roof location of low-silhouette packaged heat pumps met architect's specifications; and the adaptability of equipment to zone year 'round air conditioning of more than a dozen retail stores in the shopping center proved a decisive advantage

YEAR 'ROUND air conditioning with packaged equipment is becoming popular in shopping centers.

One recent installation by D. E. Cooper & Son, Salem, Ore., used 25 heat pumps and one auxiliary summer air conditioning unit to

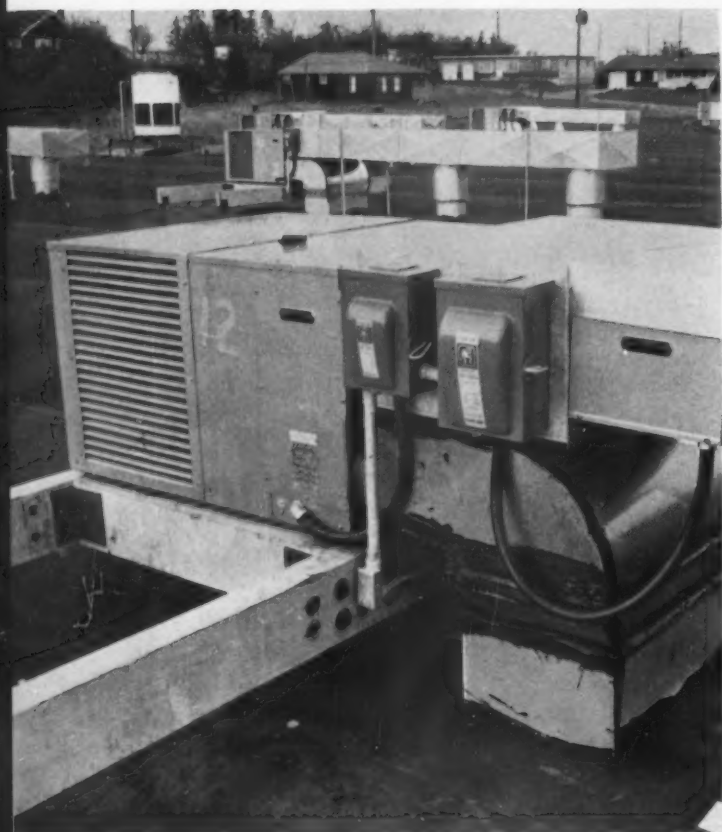
handle the heating and cooling loads for a super market, drug store, variety store, auto supply shop, dress shop, bakery, dairy goods store, beauty shop, barber shop, hardware store, self-service laundry and several other small public service shops.

Total floor area for the shopping center is 50,000 sq ft. Unit requirements call for twenty 4-ton heat pumps; three 3-ton heat pumps; two 1½-ton heat pumps, and one 2-ton summer air conditioner.

Each of the heat pumps has

continued . . .

Heat Pumps Meet Roof



ACOUSTICALLY treated ducts were sealed at the joints with asphalt and flashed where they penetrated the roof. Angle iron supports were used for duct sections

fastened to the connecting beams between the two supporting trusses. Metal brackets on both sides of the beam are bolted to both the truss and the beams to provide a solid foundation for the heat pumps.

Supply duct size in most cases is 34×14 in., and the length is approximately 14 ft. This forms an extended plenum from which two round branches are taken from the underside to supply conditioned air to the interior.

supplemental electric resistance heating elements installed in the supply trunk to help handle heating requirements during peak heat loss periods.

Architectural design called for a rib arched type of roof, with interior ceilings following the roof contour. The architect's specifications called for low silhouette heating and air conditioning equipment to be located on the roof.

Packaged type heat pumps met these specifications, and also provided the advantages of zone year 'round air conditioning by spacing and locating of individual

units with capacities to meet the requirements of the different types of businesses.

When installing the packaged air-to-air heat pumps on the roof, bases made of 4×6 in. wooden trusses with beams three ft apart were used to provide a foundation for the mechanical equipment.

These trusses are supported above the rib arch by $1\frac{1}{2}$ in. pipe stanchions at each end. The stanchions are fastened to the roof joists which support the rib arches, as the arches had not been designed to carry the additional weight of equipment.

The mechanical equipment is

Supply and Return System

One central return located in the ceiling is used to return air to the heat pump. The length of the return duct is approximately 2 ft.

Both supply and return ducts are lined with $1\frac{1}{2}$ in. of glass wool insulation.

Duct joints are caulked with asphalt material to provide airtight connections between sections and branch takeoffs.

Branch ducts are internally insulated with $1\frac{1}{2}$ in. glass wool insulation and are flashed with a standard roof flange as is the return duct where it emerges through the roof.

Installation Problems

RIB ARCH ROOF would not support mechanical equipment, so heavy wooden truss connected to joist with flashed pipe stanchions had to be used to evenly distribute the weight

In addition to the interior insulation, both supply and return ducts contain flexible connections to avoid the transmission of noise from the mechanical equipment to the conditioned area.

The conditioned air is discharged at approximately 700 fpm to achieve the desired mixing to provide maximum inside design temperatures of 80 F db with a 61 F wb for summer use; and a 70 F db for winter use. Design conditions for the outside are 90 F db and 67 F wb for summer, and the winter design temperature is 10 F.

Temperature Control

Temperature settings are achieved through a combination heating and cooling thermostat connected to a control system that cuts in the supplemental electric heating coil at approximately 37F.

Condensate from the cooling coil is drained through a flexible hose to the roof, where it drains into the valley formed between the arched sections and is vaporized by the sun.

Filters are changed periodically by employees of the shopping center, who must go to the equip-



ment located on the roof to reach the filter through an access door located in the heat pump cabinet.

The editors acknowledge the cooperation of D. E. Cooper, D. E.

Cooper & Son, Salem, Ore. dealer-contractors, and Carl D. Nowicki, Mueller Climatrol, in providing information and illustrations for this article.



ARCHITECTURAL DESIGN of the ceiling prevented use of a duct system. Air was supplied through two circular ceiling diffusers (right) and returned to equipment through a central return air grille



SERVING THE PRIMARY function—that of management—dealer-contractor Walt Stevenson (left) often confers with his office and sales managers relative to effectiveness of the company's promotion program

Here Is a Solid Growth Formula

... that has made it possible for this dealer-contractor to increase his annual volume five-fold in six years

IN 1954, Walt Stevenson's Hoosier Heating Co., Terre Haute, Ind. did a \$104,000 business volume. Six years later, it had grown to \$507,000.

This growth is the result of a careful study of each phase of the business operation. It came from separating the real from the imaginary or temporary business problems, applying good business principles to their solution, and following through to the satisfactory conclusion of each.

This is only possible, says Walt Stevenson, if a dealer-contractor forces himself to concentrate on top level management and delegates the follow-through to others. He had found that it is more economical to have reliable employees carry out his major decisions and follow through on company policies he formulates, than it is to attempt to handle all the details himself.

Carrying this thought one step further, Mr. Stevenson said that

personal supervision of details on orders only results in illusory savings. Though the costs of running a business are minimized, the dealer-contractor is unable to give enough attention to problems that he, as manager, is alone in a position to handle.

Mr. Stevenson is the dealer-contractor who was selected by a major furnace manufacturer in 1954 to carry out certain recommended management and sales promotional activities that would

assure a healthy business growth and a fair profit.

(Articles about how the Hoosier Heating Co. applied itself to this program were reported in American Artisan for March, April and May 1956, with a followup report published in the April 1957 American Artisan.)

Firm's Growth Is Visible

The principles described in these reports have been conscientiously followed by Mr. Stevenson, who applies 100 percent of his time to management and employee training.

Visual evidence of the company's growth since its humble beginning is reflected in the present building, located on a main highway passing through Terre Haute, and occupied (after modification) in 1958. The front of the building is 98 ft wide, with plate glass windows across the entire length. These windows are recessed to form small window boxes which are filled with low-growing shrubs.

The windows and the frame around the vertical supports and doorway are trimmed in 402 stainless steel with a 2-D finish. Above the windows a light-color corrugated plastic sheet is fastened to the masonry wall. Over these plastic sheets the company name in 24 in. red letters spells out quick identification.

Showroom Is Impressive

The wide glass showroom windows give both the pedestrian and the motorist a quick view into an attractively decorated showroom. Upon entering the display room a prospect is impressed by its



NOTHING is taken for granted. Each move is the result of a weighted consultation with the parties involved and in agreement with techniques that produce the most effective results



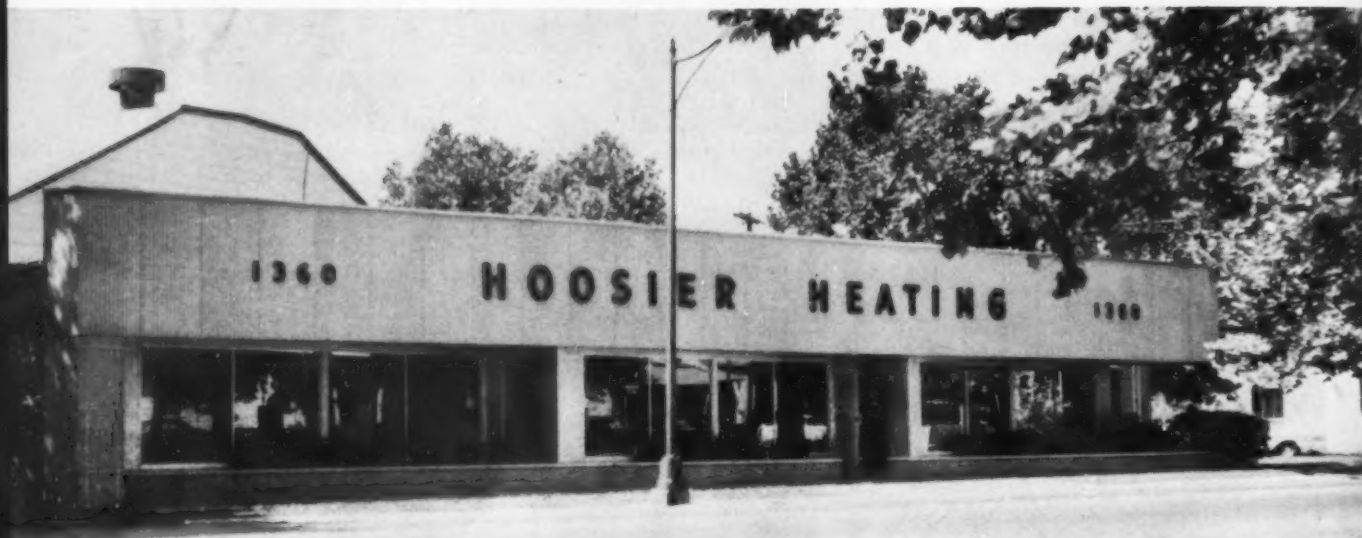
QUICK AND ACCURATE service is the result of highly skilled service crews, who report frequently encountered troubles. Causes of repetitious calls are investigated by management



MAINTAINING CUSTOMER relations, Walt Stevenson often visits purchasers of new equipment to show Hoosier Heating Company's appreciation



A Dealer's Portrait continued . . .



ATTRACTIVE BUILDING FRONT includes recessed window boxes to draw the attention of pedestrians and motorists using the main highway through Terre Haute

1600 sq ft of space, the large variety of heating and air conditioning equipment and accessories, as well as its tasteful decorations that include potted palms.

Adjoining the showroom is the customer service counter, which is curved to harmonize with the matching wood paneling that is

used as a background for the office equipment located in this space.

The same planning that went into the building front, showroom and service counter was used for the office area, shop and storage facilities. Private offices are reached by a passageway located

inconspicuously behind one wall of the customer's service counter. The offices are occupied by the office manager, sales manager, engineers and Mr. Stevenson. Showroom and office area are year 'round air conditioned.

The remainder of the building (which extends to the street be-



INSTALLATION and service superintendents' offices have been designed to promptly handle members of the service and installation crews reporting at the shop for information and supplies. Service is under the direction of Ernie Evans (striped shirt) and installation is supervised by Leonard Segraves

hind) provides all of the facilities needed by the installation and service crews which, when they report to the shop, receive instructions in an office shared by the superintendents of service and installation.

Time and job tickets are turned in at this point, where service and installation men also receive instructions for their new assignments. The sheet metal shop, located adjacent to the service and installation superintendents' office (and under the direction of the service superintendent), is fabricated from plywood panels, fastened together to allow for enlargement of the shop without extensive modification.

Panels are so arranged (with angle iron vertical supports bolted together) that the removal of any one section of the wall is possible by the removal of the bolts holding the angle iron surfaces together. Relocation to meet the need for shop expansion is accomplished merely by the addition of similar panels that extend the wall.

Inventory A Problem

Supplies are a major problem in handling this volume of work that calls for a large variety of equipment capacities, many different duct and fitting sizes, service parts, etc. In solving this problem, one section of the building utilizes vertical racks (five tiers high) to store fittings and small components as they are purchased under a stock control plan.

The ductwork, all of which is made in the sheet metal shop, is fabricated for orders routed from the sales department. This ductwork (rectangular) is fabricated in two sections so that it can be nested and delivered in large quantities to the job sites.

The plenum, duct trunk sections, branch ducts (round) and other components of the air distribution system for each job are

assembled in individual groups. Trucks assigned to make the delivery can then load the order and be on their way with a minimum of time in the warehouse.

Loading-Unloading Expedited

To expedite loading and unloading, the rear of the building has two major vehicle openings. One is located at the street level to permit a truck to drive into the

building for loading at the point equipment has been assembled for delivery to individual jobs. The second vehicle access is a concrete platform built inside the building and reached via a concrete ramp to the warehouse floor.

This platform was constructed to match the height of truck beds delivering or picking up furnaces, air conditioning units and other heavy equipment. These heavy items are moved by hand truck



SERVICE RESEARCH LABORATORY provides information on causes for equipment malfunctions and clues for diagnosing future complaints



AS THE BUSINESS has grown, so has the sheet metal shop. This view of the shop shows how bolted wall panels are used to expand the shop area to accommodate new equipment and provide space for fabricating more sheet metal work



A Dealer's Portrait continued . . .



A PARTIAL VIEW of the 1600 sq ft showroom in which a large variety of equipment is kept on display



COMPONENTS FOR INDIVIDUAL orders are drawn from inventory (tiered racks in the rear) and from production in the sheet metal shop located to the right

between trucks and storage areas.

Transportation for installation and service crews includes seven trucks and two station wagons, all of which are radio equipped. Service calls received in the office are quickly transmitted to the servicemen nearest the origin of the call. This quick response often impresses customers, who frequently are the source of exclusive modernization leads.

Equipment Testing Lab

In a room located adjacent to the service parts department is a service research laboratory for the testing of all equipment within warranty that has been returned to the shop because of some malfunction. This research laboratory includes 120 and 230 volt power, a complete set of electrical testing instruments, refrigeration testing kits, hand tools, thermometers, etc., that are used for checking the function of heating and air conditioning equipment.

Several special tools have been developed to speed up the testing of equipment under actual job conditions. One such piece of test equipment includes an artificial chimney — in which has been inserted an electric heating element — to develop false temperatures for testing stack controls.

Coordination of the various departments' activities is the role that Mr. Stevenson feels is his sole responsibility. It includes the analysis of progress reports, tabulation of costs, volume of purchases, sales, quotas of the company's five salesmen, allocation of sales promotion monies, determination of the effectiveness of

sales promotional activities, credit extension, and ratios of operating expenses.

To these managerial responsibilities, he adds the maintenance of customer relations and the accepting of civic assignments. Evidence of the esteem in which Mr. Stevenson is held by the citizens of Terre Haute is his recent election as a member of the board of education.

When asked if he would serve on the board of education, he said: "If I am elected, I will discharge my duties faithfully."

No Campaign Made

However, he made no effort to solicit the public's support through any political campaign. His name was entered on the ballot, and because of his company's reputation for quality installation and reliability, Mr. Stevenson was one of five board members selected from a field of 13.

The true value of sales promotion, Mr. Stevenson states, is difficult to measure. However, he is continually seeking ways to test its effectiveness.

The company invests 2.1 percent of its annual sales volume in sales promotion. This volume varies with the season, as it's been found that people respond during certain periods of the year more readily than others.

In general, the sales promotion program is based around a schedule of radio announcements which are used ten times a day, seven days a week. In addition to radio, road signs, bus stop benches and an occasional TV show are used.

The current radio program is



DISPLAYS ARE ARRANGED to easily demonstrate, in a pleasant atmosphere, key features of the product

based around a message carried by a 12 year old girl known as Susie Hoosier, and at some time during her message she makes a statement that her father says comfort is the most economical convenience that people can purchase.

Because of this phrase in the radio message, people often stop Mr. and Mrs. Stevenson and ask them if Susie Hoosier is really their daughter. This, Walt Stevenson explains, certainly is evidence that the public responds to his sales message.

How Did Firm Grow?

Part of his tenfold growth is explained away by Mr. Stevenson in saying that much of this volume comes from the sale of packaged summer air conditioning equipment, which helps to round out month to month business volumes. He began including central air conditioning in his services to the people of Terre Haute soon after he opened his business.

The skill of his staff has gained for him a reputation unsurpassed by any other company serving the area.

He points to a variety of work in which summer air conditioning

has been added to other than residences. He has used packaged equipment for restaurants, laundromats, stores and the major railway depot.

"Step" Operation Employed

Summer air conditioning installations are usually engineered to provide "step" operation. Step operation, explains Mr. Stevenson, is the use of two units of small capacity that total the capacity needed to match the heat gain of the installation under maximum design conditions.

"Suppose," he says, "the job calls for five tons of cooling. We would engineer the job to use two units, one a 3-ton and the other a 2-ton."

"Our sales staff explains to the customer that it is more economical to operate the 3-ton unit when it matches the load being handled at other than peak conditions. This type of operation is best, not only from the economy, but also from the comfort point of view."

"The smaller equipment will balance its operation to match the lighter load placed upon it at less than design conditions, with the result that far better comfort is enjoyed."



You Can

Turn Fil Into A

When a prospect understands the use and characteristics of different filters it is sound policy to try selling him one that meets more than minimum requirements

By S. W. Reid
Air Conditioning Engineer
Gilbert Associates, Inc.

NO AIR CONDITIONING system incorporating a finned evaporator coil could operate very long without an air filter. The filter retains the dust and lint which would penetrate and clog the narrow spaces between the fins of modern coils.

If these foreign particles were not removed ahead of the coil, the mat which would build up on the face of the coil would gradually reduce the air flow and consequently the evaporator temperature until freezing moisture com-

bined with the dust mat would stop all air flow.

From the preceding statement, it can be seen that the American Artisan Cooling Standard for filters—rating a system having an air filter as Good and one without a filter as Poor — is set forth not only in the interest of lightening the cleaning burden of the housewife but, perhaps even more important, in the interest of the equipment manufacturer and air conditioning dealer in keeping the system operating.

The question of whether or not an air filter should be used with an air conditioning system is hardly suitable for debate. The acceptance of such devices is universal. There is room, however, for discussion of the subject of what constitutes an air filter and just what air filtration means.

At one extreme we might say that bird and insect screens are air filters, since they do remove "particles" from the air. On the other hand we might say that no air is filtered unless 99.97 percent of all particulate matter is removed.

What Is 'Air Conditioning'?

True air conditioning provides comfort in all seasons, according to the American Society of Heating, Refrigerating, and Air-Conditioning Engineers. ASHRAE defines air conditioning as:

"Air conditioning is the process of treating air so as to control simultaneously its temperature, humidity, cleanliness and distribution to meet the requirements of the conditioned space."

Types of Contaminants

Such would be the job of an absolute or a heavy duty electrostatic filter using special pre-filters. Between these extremes lies the vast middle ground of air filtration where contaminants of all conceivable kinds are removed in varying degrees.

Let us first examine the prob-

ter Performance

Profitable Sales Tool

lem of air filtration from the standpoint of the contaminants. There are four major classifications: solid particles, liquid particles, gases and vapors, and bacteria. Solid particles originating from vapor condensation, such as the oxides from welding, are called fumes. Those coming from combustion processes are termed smoke. When the particle originates directly from coal, rock, wood, earth or pollen, it is called dust.

A fourth class of solid particles is known as lint. Lints are fibrous in nature and usually have their origin in animal and vegetable products such as rugs, clothing, bedding, etc.

Liquid particles in the air are no problem in the home. In an industrial plant, however, certain atomizing, spraying, splashing and mixing processes fill the air with mist or fog-like microscopic or submicroscopic liquid particles which must be removed by filtration.

Gases and vapors, like liquids,

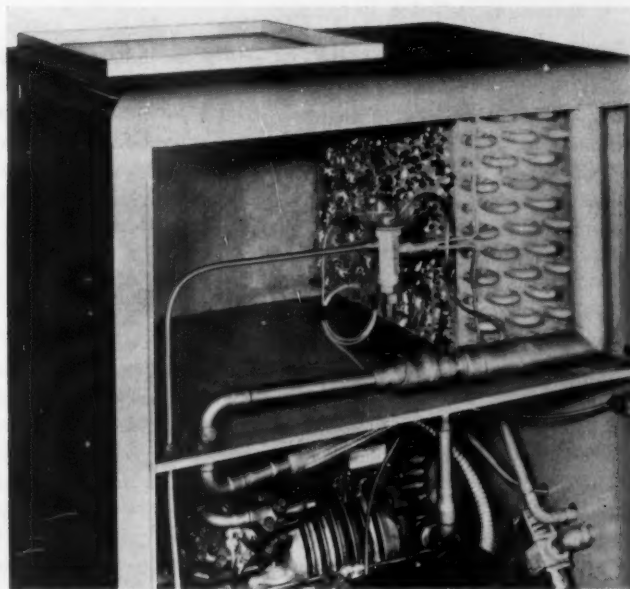
are not usually considered a problem in residential air conditioning, although we encounter them occasionally when they carry with them the odors of cooking, painting and cleaning. Since these are objectionable only infrequently, we either tolerate them or resort to some method of dilution by local ventilation.

The fourth type of air contamination, bacteria, is constantly present in residential air. These living organisms are usually carried by dust particles. Except for the incidental capturing of them

with the dust particles, no direct attempt is made in residential work, at present anyway, to reduce the bacteria count.

Obviously, the residential air cleaning problem, as we know it today, is largely one of removing dust and lint. These particles are either generated in the house or in the residential neighborhood.

Smoke, fumes and odors generated by industrial activity do not constitute nearly the problem for the home owner that they did a decade or two ago, since many municipalities now have ordi-



AIR FILTERING is essential to efficient cooling coil performance. Inadequate filtering results in clogging of air passages between coil fins. When this condition occurs, coil temperature drops and causes further restriction of air flow due to formation of ice

continued . . .



Advance the Sale With Filter Features

nances and codes which require control of these nuisances at the source. The conversion of many railroads to liquid fuels has also helped many sections maintain cleaner neighborhoods. The yardstick for measuring the size of solid air contaminants is the micron. A micron is 1/250,000th of an inch. A 1/32 in. particle measures about 800 microns. A human hair measures about 100 microns in diameter.

The average human eye unaided can see particles no smaller than about 50 microns, although with special lighting the lower limit of visibility may drop to 10 microns.

Sizes of Particles

Smoke particles fall in the size scale between 1/100 and 3/10 micron. Fume particles range from 1/10 to 1 micron, and dust particles range from 1 up to about 150 microns. An idea of the relative size of these small particles is given in the ASHRAE Guide.

The comparison therein states that by the same ratio of enlargement a 0.1 micron particle of tobacco smoke would appear to have the size of a golf ball, a 0.3 micron particle of soft coal smoke would appear as a baseball, a 20 micron grain of ragweed pollen would appear 16.5 ft in diameter and a 50 micron particle half the thickness of a hair would appear to be 50 ft in diameter.

The relative range in particle

size is an indication of the problems involved in designing a filter. It is also indicative of the difficulty of devising any single test to measure adequately the performance of air cleaning devices under all conditions of service.

Several Efficiency Tests

In connection with the above, there is quite a bit of confusion, or perhaps misunderstanding, about the meaning of filtering efficiency. One reason for this is that there are a number of different tests in use for determining efficiency.

One of the earliest of these is the ASHRAE Code Test adopted in 1933. For this test, a known quantity of prepared dust is injected into the air supplied to the test filter. The quantity of dust in the cleaned air is then extracted (by filtering through a porous crucible) from a known quantity of air, weighed and compared with the original to determine the weight efficiency.

The weight test shows a high efficiency for a filter which can remove only the larger particles having most of the weight. On the basis of the number of particles caught, the efficiency would be very low.

Filters could not be satisfactorily tested by early rating methods, since the particles in the prepared dust used for these were many times larger than the atmos-

pheric dust the new filters were designed to remove.

In other words, the weight test would not show the value of the new filter as compared with an earlier type, since the latter was already capable of collecting most of the weight.

New methods of testing air filters were developed. One by the National Bureau of Standards is known as the Discoloration or Blackness Test. This test uses atmospheric dust, i.e., no special dust is introduced, but air is used "as is" with the dirt that is always present in it.

Testing With Filter Papers

Instead of conducting the test long enough to accumulate enough dust to weigh, air samples are drawn off before and after the test filter through two filter papers, one on each side of a light chamber. Photocells measure the amount of light passing through each paper.

In one arrangement, the same amount of air per minute is passed through each paper and the time for each paper to reach a given degree of blackness is determined. The time ratio, in this case, would give the necessary data for calculating the filter efficiency.

As compared with the weight test, this test has the advantage of showing how good a job the filter is doing in removing the extremely fine particles, which although

they comprise only an infinitesimal part of the weight, do most of the smudging.

For filters which are capable of the very highest degree of filtration, there is a test known as the DOP Test. This test was developed by the Chemical Warfare Service during the last war as the ultimate test for the particulate filters in respiratory canisters.

Special Small Particle Test

Special equipment is used to generate DOP (dioctyl-phthalate) smoke consisting largely of particles measuring 0.3 micron, which is usually considered to be the most difficult size to remove in strainer type filters. This test is the standard by which the Atomic Energy Commission and its contractors purchase all its absolute filters. Penetration of the DOP smoke as measured by an optical-electrical means must be no more than 0.05 per cent.

Filter Breaks Up Air Stream

The viscous impingement filter is constructed of relatively coarse media treated with an oil or grease to retain the dust particles which come in contact with it. The media consists of fibers or metal screening arranged to break up the air stream directed toward it into many small air streams which change direction abruptly a number of times as they pass through.

These direction changes cause dust particles to separate by momentum and stick to the treated fibers. The media is usually packed with its density increasing with air flow in order to allow smaller particles to pass the first layers.

This increases the dust-holding capacity of the filter and thereby lengthens the service time between changing or cleaning. Impingement filters constructed with cardboard frames and animal, paper, or mineral media are usually of such low first cost that they can be discarded.

Filters having metal or wire screen media and metal frames are known as permanent or cleanable filters. These must be washed and recoated when dirty. Because of their sturdy construction, enabling them to withstand handling during washing procedures, and to resist rust and deterioration, the initial cost of cleanable filters is much higher than that of the throwaway types. However, the convenience of being able to clean the filter and return it to use makes this a desirable purchase in many cases.

In addition to the throwaway and cleanable types, impingement filters are available and rated for standard and for high velocity. The former are used with face velocities ranging up to about 300 fpm, whereas the latter can be used up to about 500 fpm.

Both types are available in 1 and 2 in. thicknesses with respective rated pressure losses of about 0.12 and 0.25 in. water gage (wg).

In the electrostatic filter, the incoming air passes through an electric field which gives the dust particles a positive charge. After being so charged, they pass between parallel plates maintained alternately at high positive and negative voltages.

Since the particles have a positive charge, they are repulsed by the positive plates and attracted to the negative plates. Some makes

use an adhesive on the plates to assure adherence until the dirt is removed by washing. After washing, the plates must be recoated.

Electrostatic filters themselves have a very low pressure drop. Because efficiency is sensitive to air velocity, ordinary impingement filters are frequently used in back of electrostatics to provide additional resistance for equalizing air flow across the face area of the plates.

Judging Job Requirements

With an understanding of the various types of filters available today and the job each type will do, the air conditioning dealer-contractor should be in a position to judge how best to meet the requirements of each job and to sell the product best suited to the prospect's ability to own and maintain.

As noted earlier, the principal job of a residential filter is to keep the equipment in operation by removing the large particles of dust and lint which would clog the coil (and, of course, we don't mind a bit if in so helping ourselves we can tell the housewife we are helping her).

However, this is no reason to stop us from selling the prospect on the use of filtrations that more than meets the minimum requirements on those jobs where we think its value will be understood and purchased.

Evacuating Precautions Can Prevent Service Call-backs

ONCE A REFRIGERATION system used for summer air conditioning has been opened for repairs, it should be evacuated to a vacuum nearly equal to the barometric pressure existing at the time of the pump down operation.

These vacuums are not measured in inches of mercury as shown on the standard service gage but in millimeters or microns

of absolute vacuum. To obtain such vacuums, the service-man should make two or three separate pull downs, sweeping the system with dry nitrogen before each pull down is started.

This technique will help remove non-condensable elements such as water vapor, air and residue acids, as well as reduce the danger of repeat failures.



the science of

A Complaint Can Be A Green Light

... to a sale, providing the salesman handles it in a way that will build the customer's confidence in both his product and company

TWO METHODS by which salesmen have learned to turn complaints to their advantage—attitude and approach, and capacity for “discovering the villain” — were explained last month in the American Artisan. The other two devices a salesman can use to sew up a customer's allegiance and business depend on his ability to find solutions and his knack for cashing in on complaints.

The main reason for investigating a complaint is to undo some kind of damage—to profits, products or peace of mind. However, this is easier said than done.

The first step in finding a mutually acceptable solution is for the salesman to familiarize himself with his company's facilities and adjustment policies. Precisely what guarantees does it offer? Who is responsible for installation, maintenance, billing? How soon can parts be replaced? And how far does his authority go to make adjustments?

The answers to such questions will automatically set limits to the kind of redress that can be offered a customer. But the result will be proposals that can be lived up to.

When it is known what can be done for a dissatisfied customer, tell him—precisely, correctly, and honestly. If an immediate answer cannot be given, tell him it will be taken up with the dealer-contractor, and that he will have the answer within a few days. Whenever possible, give him just a little more than he expects or demands by way of allowance or replacement.

The second step toward finding mutually acceptable solutions is to ask the customer, after telling him what will be done to rectify the error, “Is that acceptable to you?” Encourage his comments on the justice of the solution, for such encouragement pays a double dividend. It indicates confidence in the fairness of the proposal and it proves that the com-

THE SUCCESS AND GROWTH of every industry depends on its ability to create a desire for the products and services it offers. The responsibility for this motivation falls upon the industry's sales force, who must see to it that sales grow not only in volume but also in quality; that is, they must represent an exchange of maximum benefit to the customers for a fair profit to the business. This exchange permits — and also requires — the business to improve its operation constantly to serve future customers better.

To fulfill this obligation, salesmen must be able to recognize the needs of prospective customers quickly, and then produce logical recommendations for meeting these needs. Thus, training new salesmen and improving sales forces is a continuing task of management.

This series of articles presents some new information and some refinements of established sales methods which will be useful in sales training programs.

If the sales staff is small, route the magazine to each salesman before filing it.

If the sales staff is large enough to warrant weekly sales meetings, use each article as the basis for a continuing training program.

Wholesalers and manufacturers can assist dealer-contractors and their salesmen by building more formal sales training programs around this series.

pany's only interest is his total satisfaction.

"If you, your company or merchandise are at fault, settle the complaint on the spot," says a retail specialist for a large appliance manufacturer. "People are generally reasonable. What they want—and have a right to expect—is fair play. Erase the cause of a complaint and in nine cases out of ten you will hear no more about it."

It is one thing to "take care" of a complaint, quite another to turn it into the extra sales that every salesman craves. Yet, it's done every day, in a wide variety of ways. Here are some of the most important ones:

Sometimes Presentation Needs Improvement

1) *Self improvement.* In those cases where the salesman is personally at fault, a complaint can be a blessing in disguise. For example, if investigation shows that product performance is poor because the salesman neglected to explain its operation clearly, he can take steps to sharpen future demonstrations.

If the difficulty centers about lack of service, he can reassess—and improve—his current methods of keeping in touch with customers. The important thing is to learn to look on every form of criticism—spelled out or implied—as a springboard to better sales performance.

2) *Company feed-back.* "I get some of my best ideas from complaints," reports an office furniture salesman. "For instance, a customer once lodged a protest with me over the construction of our desks—the way they were built, a lot of unsightly wires hung over one side. I wrote up the complaint and passed it along to our production people.

The result was the addition of interior conduits that kept telephone and other wires out of the way. That feature turned into one of my most potent selling points." If your customer's gripe is legitimate, examine the possibilities of eliminating its cause by bringing it to the attention of your company's management.

Tipoffs to Trouble Spots

3) *Your other customers.* Some time ago, a nationally-accepted vacuum cleaner manufacturer received several complaints about the malfunctioning of a certain part of a new vacuum cleaner. Rather than hope for the best and attend to complaints as they came in, the company replaced the part on some 50,000 machines already in use. The result: 50,000 customers mightily impressed by the manufacturer's desire to keep them happy.

This has its counterpart in the heating and air conditioning field. A component manufacturer found that laboratory tests had failed to bring out the weak-

When You Must Say "No"

Not every complaint can always be adjusted to the customer's complete satisfaction. When he wants more than you can give him, try this four-step approach:

- **Carefully explain why you cannot do what he asks.**
- **If possible, draw a parallel with his own line of business.**
- **Be firm but always pleasant.**
- **Hammer away at the benefits of your products and services.**

ness in a new model. Sufficient recommendations to the manufacturer could have resulted in replacement of all existing parts in the field. With proper compensation customers and dealers would have benefited in the long run.

4) *When you're innocent.* Here's a chance to win the gratitude of your toughest customer. Even if his problem has nothing to do with your product or service—help him solve it. There is no better way to clinch a business relationship than to prove yourself a friend in need.

Or if a commercial customer is having a problem outside of the heating, air conditioning or sheet metal field, find out how some other customer has solved a similar situation and pass along the information.

5) *Complaints about the competition.* Not all the gripes you hear will refer to your product. Some at least will be leveled at your competitors. Take them for what they're worth—million-dollar tips that can be put to work for you. Not for knocking the competition—but as a clue to how you can make your service more desirable than ever to customers and prospects.

6) *Future reference.* Once you have learned from a disgruntled customer the basis for his pique, you know precisely what irks him most. From that moment on, you can see to it that the circumstances that brought on his complaint are never allowed to occur again. Given enough complaints, a dedicated salesman ought to be able to turn himself into the perfect salesman—so sensitive to his customers' needs and requirements that he knows them before they do.



Wholesalers Plan More Help for Dealers

**... in problem areas of
bookkeeping, collection procedures,
tool rental service,
overall business know-how**

ASSISTANCE for dealer-contractors in the form of a basic bookkeeping system, established collection procedures, special tool rental service, and a scheduled training program in such subjects as selling, installation and servicing were some of the subjects covered by panelists at the 14th annual convention of the North American Heating and Airconditioning Wholesalers' Association held in Detroit.

In outlining ways that wholesalers could better serve their customers over and above carrying an adequate inventory of equipment, panelists proposed numerous individual methods that would

enable dealer-contractors to benefit from the experiences and talent of persons on the wholesaler's staff.

It was recommended that each wholesaler inaugurate single subject programs, if at present regularly established dealer-contractor classes are not being held. And if there is currently a dealer-contractor training program in use, to expand it to include more than a single subject program.

Have Uniform Terminology

In conducting dealer-contractor training classes, it was suggested that they be started at a basic level

and teach accepted industry terms to establish a common understanding both at the dealer-contractor and the consumer level.

One recommendation was to train all dealer-contractors to think of themselves as air conditioning dealer-contractors, to prefix the term "air conditioning" with the word "winter" whenever heating or air distribution is discussed with employees, customers or prospects. Likewise, to use the word "summer" as a prefix for "air conditioning", when air cooling and distribution is being discussed.

The use of established termi-



OFFICERS FOR 1961, seated, president-elect R. B. Hesling, Climate Distributing Co., Van Nuys, Calif.; president, J. Orville Garrett, Loman-Garrett Supply Co., Greensboro, N. C.; vice president, D. M. Brouson, Century Sales, Ltd., Vancouver, B. C.; treasurer, Robert H. Swart, Heating & Cooling Wholesalers, Inc., Grand Rapids, Mich. Standing, George Primich, G. W. Berkheimer Co., Gary, Ind., executive director, Wilbur R. Bull.



DEALER-CONTRACTORS' PROBLEMS and suggested ways that wholesalers could use to solve them were discussed by these panelists. Left to right, beginning on opposite page, Joseph Talarico, James L. Arata, George L. Johnston, George B. Allred, E. F. Eddy (moderator), M. R. McNeil, Grace Olbright, Dave M. Brousson, Emery Lillard and James F. Keegan Jr.

nology as a means of removing the possibility of misunderstandings would lead to better public acceptance of dealer-contractors' service. And with such a common base for training programs, interest could be maintained among those attending classes, even though much of a specific subject might be currently used by some of them.

Training programs designed to bring out the financial success possible by the air conditioning industry will depend upon the co-operation and coordination of its three-way team consisting of dealer-contractor, wholesaler and manufacturer.

Participating Panelists

Specific ways were outlined by the following panelists that would enable wholesalers to put such programs to work: E. F. Eddy, American - Standard; Dave M. Brousson, Century Sales Ltd., Vancouver; M. R. McNeil, Wholesale Heating Supplies, Ltd., St. Boniface, Manitoba; James F. Keegan, Jr., Pioneer Metals, Inc., Miami; George B. Allred, Allred's, Inc., Salt Lake City; Emery Lillard, Lillard Co., Walnut Creek, Calif.; George L. Johnston, George L. Johnston Co., Detroit; James L. Arata, Aramac Supply Co., Cincinnati; Joseph Talarico, Talarico, Ltd., Montreal; and Grace Ol-

bright, Valley Supply Co., San Bernardino, Calif.

Other subjects covered during the convention that were directed toward helping the wholesaler improve his operation, and in so doing to better serve his customers, included a work-shop session on cutting operating costs. Panelists were: John Robertson, Robertson Heating Supply Co., Alliance, Ohio; Jack Allen, Allen Heating Supply Co., Buffalo; Harry H. Jaeger, Jaeger's Sales & Supplies, Inc., Trenton, N.J.; Donald S. Fraser, D. S. Fraser & Co., Ltd., Ottawa; Robert J. Schroeder, The National Brands Supply Co., New Bremen, Ohio; and Wm. Fox, Heating Trades Supplies, Inc., Toledo.

Another group of panelists covered the subject of Building Morale and Enthusiasm Among Employees. Members of this panel were: Lyle Davidson, Minneapolis-Honeywell Regulator Co.; Harry R. Hurt, G. W. Berkheimer Co., Inc., Indianapolis; George Wiener, The Tiffin Art Metal Co., South Bend, Ind.; James M. Green, Heating Wholesalers Co., Des Moines, Iowa; Francis J. DePauw, Heating and Cooling Wholesalers, Inc., Grand Rapids, Mich.; John Petrie, The Famous Furnace Co., Cleveland, Ohio; E. J. Rowder, Hart & Cooley Mfg. Co., Holland, Mich.; William W. Morrissey, The Lau Blower Co., Dayton, Ohio;

Everett J. Welliver, Slakey Bros., Inc., Oakland, Calif.; Ralph E. Ayers, Marathon Equipment & Supply, Ltd., Toronto; and William Brauer, Brauer Supply Co., St. Louis.

Heading the Detroit convention committee as chairman was C. Blaine Lytle, W. T. Andrew Co., Detroit.

Trustees elected are: George B. Sprick, Modern Equipment Corp., New Haven, Conn., Region 1; Harry H. Jaeger, Jaeger's Sales & Supplies, Inc., Trenton, N.J., Region 2; Louis L. Glascock, Glascock Distributing Co., Inc., Greensboro, N.C., Region 3; Robert J. Woodward, The Palmer-Donavin Mfg. Co., Columbus, O., Region 4; Joe M. David, Lewie David Co., Sullivan, Ill., Region 5; Floyd Doubleday, Furnace Supply Co., Kansas City, Mo., Region 6; Vince G. Shields Jr., Hinkle Supply Co., Birmingham, Ala., Region 7; James F. Primm, Standard Supply & Distributing Co., Inc., Dallas, Tex., Region 8; Malcolm B. Nicholson, Empire Gas and Electric Equipment Co., Denver, Colo., Region 9; Emery Lillard, Lillard Co., Walnut Creek, Calif., Region 10; B. H. Brown, Continue-Flo Heating Products, Ltd., Hamilton, Ont., Canada, Region 11; A. V. Hunter, Heatercraft Supplies Ltd., Vancouver, B.C., Canada, Region 12.

Prove to Be

Prove to Be

The written acknowledgment lets the prospect know that within a few days he will receive a tele-

His Best Sales Aids

How to Use This Card

APPROVED HEATING—The Department of Labor National Air Conditioning Manual for Heating and Heat Pump Cooling Systems lists a set of standards based on standards by industry authorities.

The quality of a room air heating system can vary widely, depending on a number of details. To insure the equipment functions in achieving a good reputation, 13 important points are listed with recommended conditions that directly reflect performance and reflect the working conditions of the equipment.

Use these 13 points and the equipment for which appears on the back of this card to select the best air heating system for your home.

Standards for Rating Heating Systems

POINTS TO CONSIDER	GOOD SYSTEM	FAIR SYSTEM	POOR SYSTEM
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Temperature variation between rooms

Operation in temperature between 50° and 60° and over

Control

STANDARDS for RATING RESIDENTIAL COOLING SYSTEMS

Good room coolers can be expected from central residential cooling systems designed to meet the conditions:

BOOM TEMPERATURE	GOOD	FAIR	POOR
FAIR TEMPERATURES IN ALL ROOMS	Between 70-1 & 80 F	Between 65-1 & 80 F	Over 80 F
TEMPERATURE VARIATIONS BETWEEN ROOMS	Less than 2 degrees	Between 2-5 degrees	Over 5 degrees
HUMIDITY	Less than 7 degrees between outdoor and indoor values	Between 7-5.5 degrees from outdoor to indoor values	Over 5 degrees between outdoor and indoor values
DRAFTS	"Stable"	Medium variation	Over 5 degrees between outdoor and indoor values
VENTILATION	No noticeable drafts in any occupied area	Discomfort from drafts in occupied areas	Large variations
NOISE	No noise heard in house	Discomfort from noise in occupied areas	Discomfort from noise in occupied areas
SLOWEST OPERATION	Equipment is quiet	Noise heard in house	Discomfort from noise in occupied areas
APPLIANCE WARMING	Constant	Equipment stops in operation	Equipment stops in operation
	20 appliances tested	System with compressor	Equipment stops in operation
		Partial cooling only	No equipment tested

This material is derived from National Air Conditioning Manual for Heating and Heat Pump Cooling Systems, published by the Department of Labor, Bureau of Standards, Washington, D.C. 20535. It is a part of the National Air Conditioning Manual for Heating and Heat Pump Cooling Systems, published by the Department of Labor, Bureau of Standards, Washington, D.C. 20535. It is a part of the National Air Conditioning Manual for Heating and Heat Pump Cooling Systems, published by the Department of Labor, Bureau of Standards, Washington, D.C. 20535.

The summer air conditioning check-list contains 15 questions

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continued . . .



Standards Cards Prove the "Quality" Story

that help a prospect determine whether the existing system can easily be converted to a year 'round system. The prospect is able to check in one of three columns — headed either "Yes," "No" or "Don't Know" — the condition of existing equipment.

These questions deal with the age of the furnace, whether it contains a blower, type of filters used, methods used to prevent noise transmission, whether ducts are insulated, location of branch duct dampers, supply openings in each room, return air intake openings, age of the diffusers in use, wall and ceiling insulation, whether awnings or sunshades are used, whether power supply is adequate, and other factors involved in the conversion of an existing air distribution system for handling summer air conditioning loads.

Uses Tailored Sales Message

The backs of each of these two check-lists are printed with a sales promotion message designed by Mr. Deterding to meet the specific needs of prospects within his area. The letter was composed and printed locally.

Check-lists are mailed each month to those selected for that specific mailing. When the check-lists are returned and the acknowledging letter mailed out, appointments are arranged so that several sales calls can be made

in the same general area.

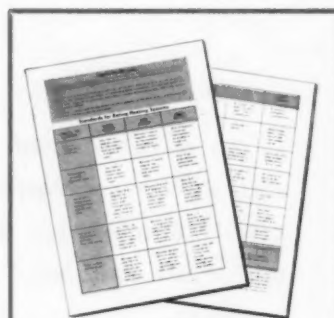
On sales calls, prospects are shown their check-lists and the points checked off are reviewed. Usually, this is done right at the equipment. Good practices are explained, pointing out how they contribute to the overall performance of an installation.

How 'Standards' Are Used

As the sales presentation progresses, the Standards for Rating Heating Systems or the Standards for Rating Residential Cooling Systems cards is brought into the conversation to point out to the prospect how to go about selecting a system that will provide good performance as against one whose performance could be questioned.

By taking a step-by-step explanation of the essential factors involved in purchasing a good heating or summer air conditioning system, Mr. Deterding finds that it is not difficult to show the prospect why it is advantageous to consider purchasing a system that will adequately meet his needs. In the long run, he points out, it will be the most economical investment that can be made.

It has also been found that by use of the check-lists and Standards cards the possibility of overlooking essential factors involved in modernizing a heating or air conditioning system is practically eliminated.



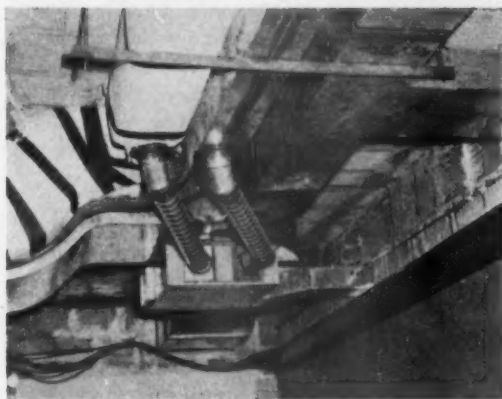
THIS ARTICLE describes another way the Standards for Rating Residential Cooling Systems, and the Standards for Rating Heating System cards have been used to sell modernization. Attractively designed and written in language the home owner can understand, the useful standards cards lists the essential points which contribute to complete year 'round comfort in the home, and rates the prospect's system as "Good," "Fair" or "Poor" in terms of each of the comfort conditions.

The cards add authority to the sales presentation, and proves conclusively to the prospect the advantages of buying quality rather than price. Copies of the standards card are available at 2¼ cents each from American Artisan.

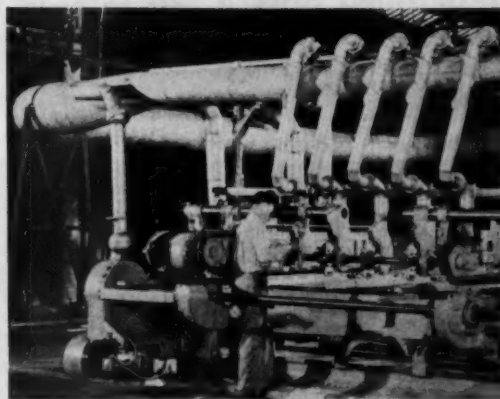
AMERICAN ARTISAN

Sheet Metal Section

Ventilation



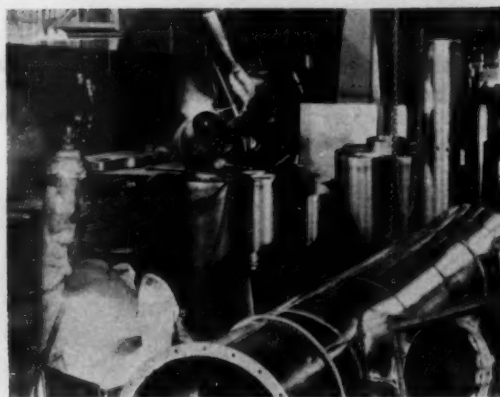
Dust Removal



Architectural



Specialties



Where To Apply Operating Costs to Estimate a Proper Bid . . . Page 110

Special Slip Cleat Speeds Duct Fabrication Page 114

Little Ships Pose Big Fabricating Problems Page 118



HOW MUCH DOES it cost to open this place of business on January 1 of each year? And . . .



. . . should the total annual business burden be born by the sales volume, or . . .



. . . should the burden be applied against the productive man hours required for each job?

Where Do

To productive labor instead of annual net sales, if accuracy in bidding is to be achieved, finds this sheet metal contractor

PROPER DISTRIBUTION of overhead for each job is essential in correct bidding practices. This is the firm belief of Ted Kuck, Ted Kuck Co., Sheboygan, Wis., who has proven his point of view by steady growth since he started his sheet metal contracting business in 1949. Business volume 10 years later (1959) was \$1,200,000, most of it in industrial and commercial sheet metal work.

Application of overhead cost at the Kuck Co. is based on productive labor used rather than on annual sales. Mr. Kuck feels that the cost of doing business each year is directly related to the man-hours used. By applying the cost of doing business to the productive labor needed for a job, the true costs are correctly applied and bids submitted are in line with the work performed.

Examples Tell Story

On the other hand, use of overall business volume projects the cost of equipment into overhead percentage figures, which has considerable bearing on the figure submitted as a bid.

Examples of how his method of applying overhead compares to

You Apply Operating Costs?

that of using annual sales volume show the reason some jobs can appear to be profitable but do not turn out that way; and why a few jobs provide an unusually large profit. The following examples are based on a direct cost of \$100, equaling 100 percent.

For a job where the material cost amounts to \$70 and the productive labor required is \$30, a breakdown of direct costs plus overhead would show:

70 percent material	\$70.00
30 percent productive labor (@ 45 percent overhead)	43.50

Base bid before profit is added **\$113.50**

For a job where the material costs amount to \$30 and the productive labor required is \$70, a breakdown of direct cost plus overhead would show:

30 percent material	\$30.00
70 percent productive labor (@ 45 percent overhead)	101.50

Base bid before profit is added **\$131.50**

Use of Annual Sales Volume

An estimate made on total annual sales volume plus an average overhead percentage would show:

100 percent (material and labor) plus 20 percent (a frequently used overhead figure) equals \$120.00 as a base bid before profit is added.

It will be seen by the above methods of estimating a job with



DAILY ATTENTION to costs involved in shop fabrication and at job sites provides Erwin Bubba (left) and Ted Kuck with accurate estimating statistics

a small portion of labor in relationship to the cost of material, that a bid of \$113.50 (plus profit, fees and other necessary charges added to all jobs) would be the more realistic one in relationship to the application of overhead costs. This method of figuring, where the material costs are much higher than the labor costs, would certainly assure the sheet metal contractor a good chance of being awarded the contract.

When You Lose Money

However, should the labor cost be double that of material costs, a job bid for \$120 by the method of applying overhead directly to the total of material and labor costs means that the dealer-contractor would have lost \$11.50 for each \$100 worth of business. This would be in addition to his profit.

In many cases, the customer will select his contractor solely on the price quoted in a bid. This, in general, is the fault of those submitting bids. The integrity of the

company, its financial responsibility, the service it provides, the quality of the work performed, the ability of the company to perform the type of work needed—through its employee skill and equipment—are all essential to the customer when making a wise selection of a sheet metal contractor to do the work for him.

These points, properly presented, should accompany all proposals. It's these factors Ted Kuck has added to his bidding procedure that have helped him grow to his present \$1 million plus annual volume.

Has Two Satellite Shops

To maintain his reputation for prompt service, he has set up two satellite shops, one in Appleton, the other in Racine. These shops are equipped to turn out ductwork and other standard jobs passing through a sheet metal shop, where heavy duty mechanical equipment and tools are not extensively required. Jobs requiring tools and machinery with capacity for heavy

continued . . .

Base Estimate on Productive Labor to Improve Accuracy in Cost Allocation

gage work are routed to the home plant in Sheboygan.

The reputation for being able to handle any type of job with any type of sheet metal brings in many special jobs, for which no bids are requested. This type of work is charged for in the same manner: the overhead is applied against the productive labor used.

It's not unusual to find products being fabricated in the shop from galvanized, black, stainless steel, copper and aluminum sheets all at the same time.

Productive Labor Exclusions

In applying his overhead against the productive labor cost, Mr. Kuck does not include as productive labor the cost of engineering and estimating, truck drivers and related persons. These charges are covered in the percentage of overhead applied to the productive labor used.

The percentage applied to productive labor as overhead is based on the cost of operating the business in previous years compared with the record of productive labor used during these periods. A monthly check of productive labor and overhead costs is rated against previous records for comparison. The overhead percentage figure is adjusted if it is found that ratios are not running according to the current percentage used to cover the overhead costs.

These comparison checks are made against a pre-arranged table showing the percentage of overhead cost as related to various



WELL EQUIPPED SHOP utilizes power-operated machines to help cut the cost of fabricating heavy gage hoods and related equipment. But . . .



. . . the fabrication and assembly of products using many individual parts requires more time and consequently more of the business burden

productive labor costs. The validity of these figures is checked annually both by Mr. Kuck and by his accountants, and may be found to vary as much as 5 percent from the average.

Keeps Overhead Costs Down

Mr. Kuck says that his method of preparing a bid doesn't give him any leeway in his management practices, and that he follows good business rules in keeping his overhead costs down. For example: if a truck is found to have reached an age of four years and is beginning to be expensive to maintain, it is immediately replaced with new and more reliable transportation.

The Ted Kuck Co. is located at its original address, but due to the growth of business has expanded by adding to the original building. The building is located on a main thoroughfare and at the time of original purchase, street frontage was limited.

Realizing that he could not expand that portion of his building facing the main street, Mr. Kuck acquired the vacant property to the rear of his office and shop. To obtain access to the shop, additional street frontage was obtained by purchasing adjoining property facing a side street. There is now adequate access and parking facilities both for company trucks and employee cars.

More Space Needed

Because satellite shops do not handle any of the billing, engineering and record keeping, this service is handled at the main office. The growth of business in the two satellite shops has increased the work load on the office staff and the space it needs, thus requiring a larger office area.

It was decided that the pres-

ent office area would be enlarged by erecting a 20 x 25 ft building over an area in front of the building which had been used for customer parking. A sign directs customers and guests to the new parking area in the rear.

In addition to the recent expansion of the office area, another

new addition has been made to the sheet metal shop for the fabrication of dust collectors during winter months, when the work cannot be performed outside. To provide the head room needed for this type of construction, the new 40 x 60 ft addition was constructed with an 18 ft ceiling.



HAND DIMPLING of copper sheets to meet a customer's specification for a range hood brings costs of special jobs into their proper perspective when overhead is applied against productive labor. Whereas • • •



• • • assembly of flat sheet jobs, such as this insulated sheathed door, has a low cost per pound of metal used

Fabrication & Erection

Are Speeded by Special Slip Cleat

Here are the construction details for
simple slips and those
with standing or welded angle-iron seams

FASTER FABRICATION and faster erection are two objectives that every sheet metal contractor engaged in fabricating ductwork for ventilating and air conditioning systems is interested in.

Many sheet metal contractors are engaged in streamlining shop operations and developing fastening techniques that can help cut the cost of installed ductwork.

Charles P. Blouin, Charles P. Blouin, Inc., Cambridge, Mass., has succeeded in developing a shop technique that eliminates the usual notching operation needed for forming drive cleat locks on duct sections.

Use of a special slip cleat has made this possible. The special

slip is shop fabricated and installed on one end of the duct section before it is sent to the job site, where the joint is made by slipping the straight end of one duct into the open end of the special slip on a second duct.

The second duct section, after being installed in the special slip, is fastened to the first duct section by the use of sheet metal screws inserted in each side of the duct through holes punched in the slip.

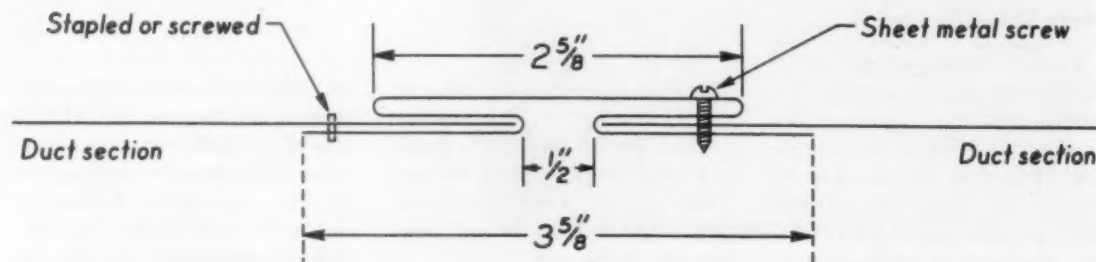
The special slip was first used for high velocity air distribution systems (up to 6 in. wg) and has since been adapted for use with all rectangular duct sections installed by the Blouin company. There are several varieties of the

slip — those that use a standing seam, those with welded angle iron seam and those without either.

Duct Construction

Ducts utilizing this method of connection are cut from standard length galvanized sheets to meet the individual job specifications and are braked to the proper dimensions, forming a straight piece of metal at both ends of the duct and joined with a Pittsburgh lock along the horizontal seams.

The connecting slip, when completely finished, is 3 5/8 in. wide and is fabricated to match the sketch outlined in the illustration.



END VIEW OF JOINT between the straight ends of two duct sections illustrates how completed joint appears after duct has been erected at job site

Special dies used in the press brake help to fabricate the stamped out blanks. These blanks are punched to meet all the various requirements or dimensions of varying duct widths and depths.

"S" Slip Resemblance

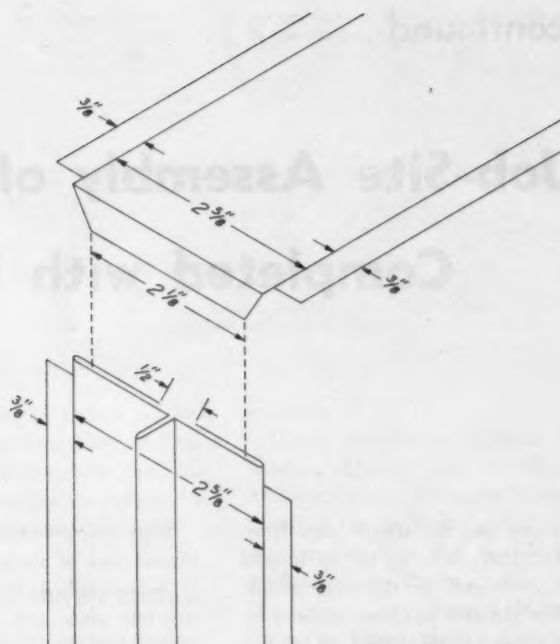
The simple slip somewhat resembles two plain "S" slips made into one piece back to back. However, the lower lip, which fits inside of the duct, is extended $\frac{3}{8}$ of an inch beyond the reversed end on each side of the slip. This has a dual purpose: It provides additional support to the metal end of the duct and also permits easier fastening and a tighter joint when the slip is fastened to the end of a duct section.

The second slip is that of the standing seam, fabricated from blanks in the same manner. However, the die used permits the metal to be pressed into a 1 in. standing seam.

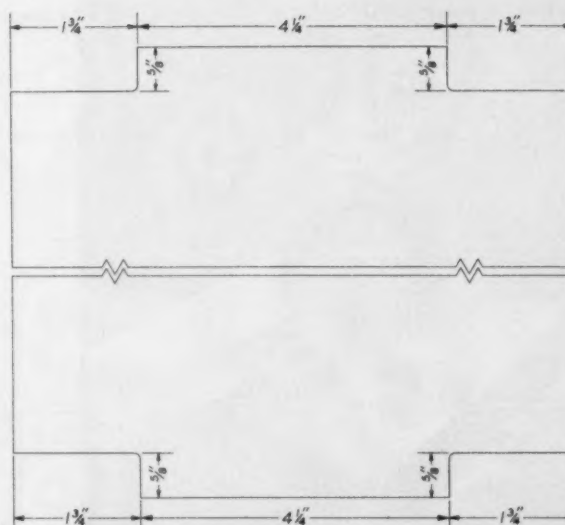
Other Slips

This slip also includes a $\frac{3}{8}$ in. extension beyond the point at which the reverse bend is made on each side. The third class of slip, that using 1 in. angle iron, is fabricated in the same manner as the simple slip. However, the angle iron is attached by spot welding along the length of the slip.

Interlocking side slips are made



CORNER DETAILS of slip cleat outline the assembly of a side piece with a top or bottom piece. A $\frac{3}{8}$ in. lip at each end of the short-side piece fits into the ends of long side pieces. The four pieces, when assembled, are fitted over one end of a duct section at the shop and fastened with screws or staples



SLIP CLEATS for minor applications are formed from blanks stamped out at the corners to dimensions shown. Length of blank is determined by duct dimensions for the side where the slip is to be used. Duct sides with maximum dimension of 18 in. use minor slips

continued . . .

Job-Site Assembly of Ductwork Quickly Completed with New Slip Joint

exactly like the simple slip. However, there is a $\frac{1}{2}$ in. lip formed at each end of the slip, which, after the slip has been pressed into shape, is then bent at 90 deg to the length of the slip.

This permits the interlocking slip to be driven into the slip running the width of the duct. Interlocking slips are generally used on the duct depth side.

All four types of clip described are punched with holes to accept sheet metal screws at the job site when the straight end of the duct section is being attached.

Slips are attached in the shop to one end of each section. This is accomplished by driving the slip into place and fastening with a stapling machine, especially developed for and to the specification of Charles P. Blouin.

Screws Are Eliminated

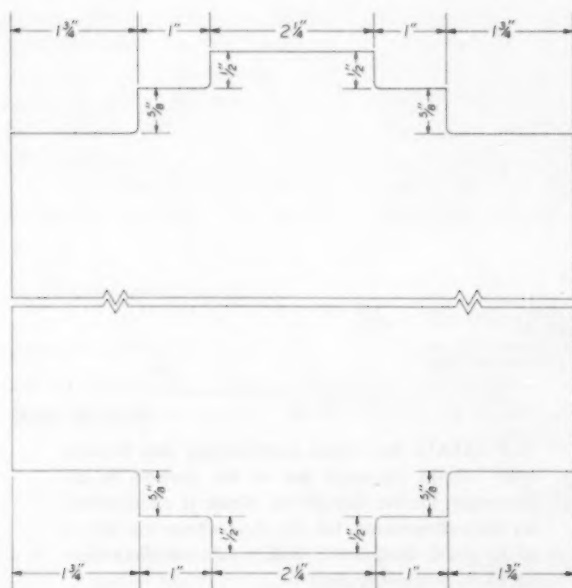
The stapling machine pushes the staple through the duct and through the $\frac{3}{8}$ in. lip on the slip. (Before using the stapling machine Mr. Blouin used sheet metal screws for this operation. He did

not find spot welding to be as satisfactory as the other two methods used.)

Slips are made from the same gage metal as are the ducts and are used on all widths.

Duct work production at the Charles P. Blouin company is approximately 200,000 lb of ductwork per month.

Charles P. Blouin, Inc. was founded by Charles P. Blouin Sr., who incorporated the company in October 1933 and was its president for the following 18 years. Mr. Blouin Sr.'s business philos-



INTERLOCKING SIDE SLIPS are formed from blanks similar to those used for minor slip construction, the exception being an additional $2\frac{1}{2} \times \frac{1}{2}$ in. lip added to the ends. After the minor slip has been formed, the $2\frac{1}{2} \times \frac{1}{2}$ in. lip is bent at 90 deg to form the interlocking lip

BLANKS FOR MAJOR SLIPS requiring a standing seam to provide rigidity are stamped to the dimensions at right. The length of the blank is based upon duct dimension for the sides where the standing seam is used. Major slips are used where duct dimensions are over 18 in. on the wide sides



ophy was fourfold: to give service, provide quality, promote good will, and plow back money into the company so that it could grow and thus provide better products and service.

This is the philosophy under which the company has grown and still operates today. Its sales have grown from approximately \$20,000 in 1933 to \$2,500,000 a year currently.

The building occupies 15,000 sq ft in its present shop and offices. The offices are modern and efficiently arranged to reflect the company's business philosophy.

Management Mirrors Outlook

The shop contains modern equipment sufficient to turn out maximum quantities of ductwork and all other types of sheet metal

products.

Recent installations include the Western Electric Co. of North Andover, Mass.; American Mutual Liability Co. in Wakefield; Pratt-Whitney of New Haven, Conn.; National Life Insurance Co. in Montpelier, Vt.; General Motors Corp. in Framingham; Bostitch, Inc., East Greenwich, R.I.; many hospitals, banks, schools and other public buildings.

New City Hall Uses Stainless Steel Architecturally

STAINLESS STEEL is being used extensively for the new city hall in Canton, Ohio, slated to open early this spring.

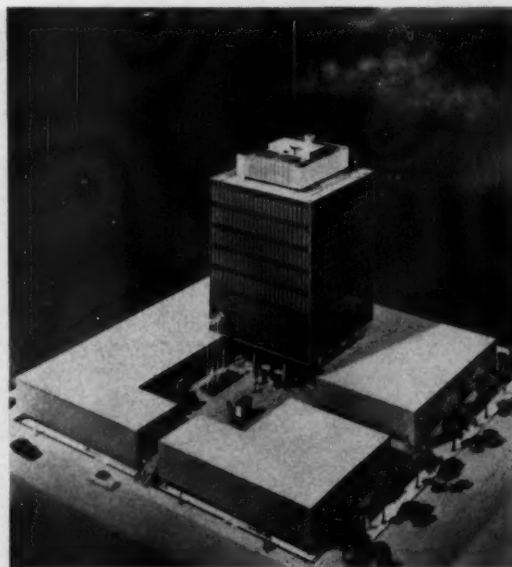
Mullions and column sheathing of stainless steel are used in the 116 ft tower section of the building to divide glass surfaces into rectilinear patterns. The inner walls of the two base buildings — facing the court — have stainless steel curtain walls, and the "fence" on the tower roof is also stainless steel.

Structural tubing for the curtain wall framing is 0.120 in. thick carbon steel, 2 X 2 in., prime painted, and covered with 18 ga stainless steel. The glass back-up members are also of 18 ga stainless steel. Spandrel and glass panel retainers are cold rolled from 0.032 in. stainless steel.

The rigidized, insulated curtain wall panels for the court, mechanical floor and roof tower have an exterior face of 24 ga stainless steel and an interior face of 24 ga steel with a honeycomb core.

Rigidized stainless curtain wall is planned for the building's mechanical equipment floor, while other stainless steel uses include doors, windows, fascia, soffits, elevator interiors, and railings.

The Limbach Co., Pittsburgh, is the sheet metal contractor.



PRIMARY ARCHITECTURAL uses of stainless steel are found in the tower section of the building and the "fence" around the cooling towers

Little Ships Pose Fabrication Prob

...for sheet metal contractors because seldom can right angles be formed in sheet metal to provide the support required to withstand rough seas. Other problems involve electrolytic action and high rates of corrosion

"THERE APPEAR to be no 90 deg angles on fishing boats, and this situation causes us more trouble than anything else when we fabricate products to meet the needs of these small, but tough, little ships," says Clayton R. Sova, Modern Heating and Ventilating Co., Gloucester, Mass. "An imitation smoke stack is an example of how this situation is duplicated for each type of product needed by people who are often at sea for 30 days at a time."

Unusual Specifications

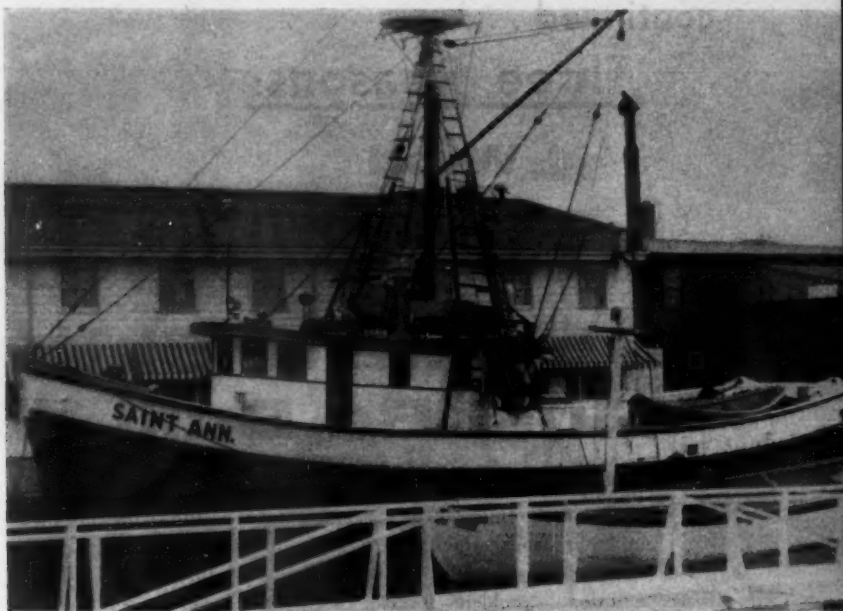
Products made for marine applications must meet specifications that few other products are ever exposed to. They must be sturdy, to stand the forces of rough seas, they must withstand constant attack by corrosion, and they are subject to considerable electrolytic action set up by solutions that salt water helps to create.

To produce products that will meet these specifications, a variety of different types of metals must be used. Galvanized, stainless steel, copper and aluminum all have their place in marine applications. The essential factor in-



IMITATION SMOKE STACK is actually a watertight storage compartment for LP gas containers. There is not one 90 deg angle in the entire shape

Big blems



FISHING SMACKS such as these are a source of many problems to the sheet metal contractor, who is called upon to provide replacement of tanks, bins, troughs, etc.

involved in the use of a specific type of sheet metal is the other metal that it will come in contact with, Mr. Sovo points out. This metal must be similar, to avoid the attack of electrolysis.

In fabricating the imitation smoke stack for a fishing vessel (the smoke stack actually is a waterproof compartment for LP gas containers), it was necessary to first build a mockup of the part of the cabin upon which the smoke stack would be mounted.

Wooden Mockup Used

This mockup was built from wood by a carpenter and required seven hours to construct. The mockup thus provided the basis for constructing the pattern for the smoke stack.

Since the covering of the roof on the fishing vessel was aluminum, the smoke stack was fabricated from 0.050 anodized aluminum sheet.

Because the top oval of the smoke stack is smaller than the bottom oval by some 4 in. in width and 5 in. in length, 26 ga galvanized sheet was used to form



REMODELING AND MAINTENANCE of fish processing plants provide work for the shop when the fleet is out. Here nine ducts feed a continuous strip diffuser, 12 in. wide and 48 ft long, for a fast freezing room

continued . . .

Three Reasons:

Wind

Water

Electrolysis

Why Metal Ship Lockers Must Be Built With Care

the pattern for the more expensive aluminum from which the smoke stack was to be made.

An additional problem faced by the sheet metal contractor was that the smoke stack overlapped a 10 in. rise in the roof deck at its foremost end.

Smokestack Made Realistic

Because this imitation smoke stack was to be waterproof, the metal top for it was located 4 in. below the top edge of the stack, so that it would appear to be open, as a smoke stack should. Thus, to prevent a buildup of water in the space between the roof of the compartment and the edge of the stack, weepholes had to be drilled at the back end.

On one side a watertight door — that fits flush with the surface — was made so that the LP gas containers could be removed and refilled. To achieve the appearance of a solid side, a piano type hinge was used and fastened to inside hidden brackets so that the door could open outward.

The door was fastened by watertight locks similar to those used on automobiles. Inside the access door was a gasketed flange that made it possible for the door to provide a watertight compartment when closed and locked.

All joints, both in the fabrication of the smoke stack and in its

attachment to the roof, were made by welding.

Overall dimensions of the smoke stack at the top were 21 in. wide by 42 in. long, with a 10½ in. radius in front and back. At the bottom, the radius was expanded to meet the measurements of the 48 in. length and the 27 in. width.

The smoke stack was higher in the front than in the back to give it the desired appearance of being raked. The overall height was 26 in. in front, 22 in. in back.

Other Work Needed Too

Replacement and addition of products on fishing boats provides a sheet metal contractor with plenty of work when the ships are in port, but when they are out to sea it is necessary to find other types of work to keep the shop occupied.

Many of the problems that cause deterioration in metal on the fishing boats are duplicated in the fish factories and plants due to their proximity to the same atmospheric conditions which ships must face.

Therefore, there is considerable replacement and remodeling going on constantly in fish processing plants.

Recently, due to consumer increase of frozen fish fillets, one of the plants decided to rebuild and

redesign its fast-freezing compartment. This called for freezing equipment that delivered large quantities of subzero temperature air at high velocities to fast freeze the fish fillets.

To achieve the air distribution pattern desired, it was necessary to utilize a continuous strip discharge grille 1 ft wide and 48 ft long on each side of a freezing room.

Nine Ducts Employed

To supply the quantity of air necessary to achieve the high velocity and the temperature specified, nine ducts were evenly spaced along the 48 ft length and along both sides of the room. The ducts were fabricated from 20 ga galvanized sheet.

Return air is taken from the area through a ceiling grille that runs down the center and for the entire length of the room. The temperature of the room will raise about 10 deg (to -30 F) when first loaded with freshly packaged fish.

Other products used by both the ships and processing plants include numerous tanks of various sizes and shapes (of 14 ga material), chutes, bins, troughs, etc. (of 20 ga sheet material); trays of 18 and 16 ga material (usually stainless steel), and a variety of other special use products.



LINDE COMPANY

**UNION
CARBIDE**

SHORT ARC

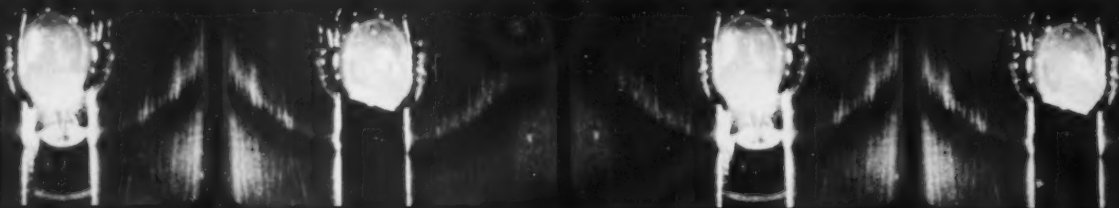
QUALITY SHEET-METAL WELDING

Sheet-metal welding has been possible, but quality welds were difficult and time-consuming. Now, LINDE's new Short Arc process—combining specialized power source characteristics, shielding gas, and semi-automatic torches—easily delivers quality and economy

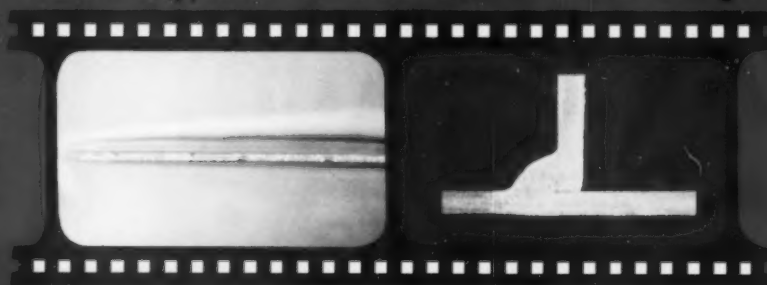
- ... on all sheet-metal thicknesses
- ... with minimum distortion—far less than any other process
- ... tolerating more than 100% gaps—even 1/4-in. gaps on 1/8-in. material
- ... producing 30 ft. of fillet welds for only a pound of wire and four cubic feet of gas
- ... as fast as 20 inches per minute on 16-ga. sheet
- ... as easy to control as a ball-point pen
- ... permitting all-position welding with the same settings
- ... and consistently cleaner, smoother, more-uniform welds than any other process.

See the next page for details.

SHORT ARC



Here is a typical LINDE Short Arc weld in the making...



a finished bead, and a weld cross-section...

Notice the intermittent "shorting," the smooth, finished bead, the uniform penetration. No spatter. No clean-up. No finishing. Welders trained in minutes. Short Arc employs precisely controlled, low-voltage pinpoint-arcs shielded by an argon-CO₂ gas mixture. Shorting the arc lets the puddle cool, *minimizing* heat distortion and *controlling* burn-through for ideal penetration. Short Arc works on all common metals and their alloys, on carbon steel, stainless, aluminum and magnesium... on all types of joints... in all positions.

Only LINDE has brought together the ideal combination of materials for welding sheet metal—the SVI-300 power supply, with variable slope, voltage and inductance controls that permit an *infinite* range of settings; the C-25 argon-CO₂ gas mixture that combines with variable slope to reduce heat and *control* penetration; and the ST-2 and ST-4 torches, specially designed for hard and soft wires respectively. There is no substitute for Short Arc. Only LINDE offers the specialized equipment that makes such *quality* sheet-metal welding possible. For more information or a live demonstration, call your nearest LINDE office.

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Division of Union Carbide Corporation
270 Park Avenue, New York 17, N. Y.



SCENE OF THE International Heating & Air-Conditioning Exposition is Chicago's International Amphitheatre at 43rd and Halsted Sts. The Stock Yard Inn is at the left of this view

Preview of Chicago Show

THE 15TH INTERNATIONAL Heating & Air-Conditioning Exposition opens its doors at 12 noon, Monday, February 13, on more than 500 displays of equipment for heating, cooling, ventilation, moisture control, air purification, and refrigeration. According to its management, the show will comprise a greater amount of such equipment than has ever before been assembled at one place, and will include materials, components, and complete systems.

The exposition will be open daily from noon to 10 p.m. Monday through Thursday. On the same days, the American Society of Heating, Refrigerating and Air-Conditioning Engineers will hold a semi-annual meeting at the Conrad Hilton hotel in Chicago. Preceded by various committee meetings on Saturday and Sunday, the first and second technical sessions and a symposium are scheduled for Monday at 9:30 a.m., with forums that afternoon. The third technical session and symposiums on heating and on air conditioning are planned for Tuesday at 9:30 a.m., with forums at 2 p.m. On Wednesday, there will be a research and technical program plans conference and a

symposium at 9:30 a.m., and forums again at 2 p.m. The fourth technical session, and a ventilation symposium, are scheduled for 9:30 Thursday.

Non-technical events include a "mixer" from 3 to 6 p.m. on Sunday, February 12, a welcome luncheon at 12:30 on Monday, a "get-together" party at 8:30 that

evening, and a banquet at 7:30 p.m. on Tuesday (because February 15 is Ash Wednesday). Harry Gragg is chairman of the arrangements committee.

A complete listing of the exhibitors at the exposition, along with their booth numbers, appear on the following pages, with diagrams showing booth location.

HOURS

Exposition open 12 noon to 10 p.m. daily, Monday through Thursday, February 13-16, at International Amphitheatre, 43rd and Halsted Sts., Chicago.

SPECIAL BUS SERVICE

Starts Monday, 10:30 a.m., with stops at Sherman hotel (Clark St.), Morrison (Clark St.), Palmer House (Monroe St.), Congress hotel (Michigan Ave.), Sheraton-Blackstone (Michigan Ave.), Conrad Hilton (Michigan Ave.). One way fare is 50c.

CITY BUS SERVICE

Mondays through Saturdays, 7 a.m. to 7 p.m., board southbound Halsted-Downtown bus (No. 42) on Clark St. (two blocks west of State St.) and ride direct to International Amphitheatre entrance. Return to Loop over same route. In Loop area, this service operates east in Polk St. from Clark to Dearborn Sts., north to Randolph St., west to Clark St., and south in Clark St.

ADMISSION

Exposition is under the management of E. K. Stevens, of the International Exposition Co., and is under the auspices of the American Society of Heating, Refrigerating and Air-Conditioning Engineers. It is open by invitation and registration only, the general public not being admitted. ASHRAE members attending meeting are admitted on their society badges, exposition registration not being necessary.

THE EXHIBITORS AND THEIR BOOTH NUMBERS

Ace Engineering Co.	936	American-Standard, Controls Div.	24, 106	Boiler Engineering & Supply Co. Inc.	N-443
Ackerman Gas Boiler Corp.	N-134	American Standard Industrial Div.	20, 22	Boiler Equipment Trust Co.	N-117
Acme Engineering & Mfg. Corp.	1133	American-Standard Plumbing and Heating Div.	23, 27	Boitz Mfg. Co., Inc.	232
Acme Industries, Inc.	854, 864	American Tube & Controls, Inc.	N-112	Boyle Engineering Laboratory Div. of Rotherm Engineering Co., Inc.	745
Actual Specifying Engineer	N-414, N-416	American Warming & Ventilating Co.	650	Brandes Co.	763
Addison Products Co.	1110, 1114	Ammerman Co. Inc.	429	Breidert Co., The G. C.	N-229
Aero Supply Mfg. Co. Inc.	1003	Anderson Co., The V. D., Div. of International Basic Economy Corp.	1018	Brookside Corp.	52
Aeronautical Electronics, Inc.	214	Anemostat Corp. of America	29	Brown Products Corp., A.	729
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Air Devices Inc.	1015	Arkos Mfg. Co.	N-108	Burgess-Manning Co.	313, 315
Air Engineering	342	Armco Steel Corp.	1207	Burke and Co.	N-143
Airfloor Co. of California, Inc.	1128	Armstrong Cork Co.	1042, 1044	Burnham Corp., Heating & Cooling Div.	714
Air-Heat Corp.	1020	Armstrong Furnace Co., Div. National Union Electric Corp.	6	Burnham Corp., Steel Boiler Dept.	710
Air Motion Research, Div. of Missile Dynamics Corp.	N-247	Armstrong Machine Works	625, 627	Burnham Corp., Warm Air and Cooling Div.	706
Airfan Engineering Co.	N-312, N-314	Arrow-Hart & Hegeman Electric Co.	663, 665	Byers Co., A. M.	1124, 1126
Airguide Plastics Corp.	1046, 1048	Arvin Industries, Inc.	N-230, N-232		
Airserco Mfg. Co.	1145	Ascot Gas Water Heaters, Inc.	N-440	Calgon Co., A Div. of Hagan Chemicals & Controls, Inc.	755
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Airtex Corp.	217	Auer Register Co., The	1009	Cambridge Filter Corp.	914
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Aldrich Co.	1051	Automatic Devices Div. of American Machine and Metals, Inc.	N-504	Cash Valve Mfg. Corp., A. W.	707
Allen-Bradley Co.	556, 558, 560	Automatic Humidifier Co., Div. of Standard Mfg. Co.	N-129	Century Electric Co.	915
Allied Chemical Corp.	246	Avon Tube Div., Higbie Mfg. Co.	N-337	Century Engineering Corp.	962
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Alnor Instrument Co. Div. of Illinois Testing Laboratories, Inc.	672	Bacharach Industrial Instrument Co.	1024	Champion Blower & Forge Co., Inc.	651
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American Air Filter Co., Inc.	40	Barber-Colman Co.	506, 508	Chicago Blower Corp.	602, 703
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American Gas Associates	520, 532, 633	Bastian-Morley Co., Inc.	N-342	Cleaver-Brooks Co.	33
American Gilsonite Co.	841	Bayley Blower Co., A Div. of The Green Fuel Economizer Co., Inc.	1104	Cleveland Controls, Inc.	1221
American Iron and Steel Institute	709	Bell & Gossett Co.	911	Cleveland Steel Products Corp., Toridheet Div.	724, 728
American Machine and Metals, Inc.	N-504	Bendix-Westinghouse Auto- motive Air Brake Co.	309, 311	Cobra Metal Hose	1026, 1028
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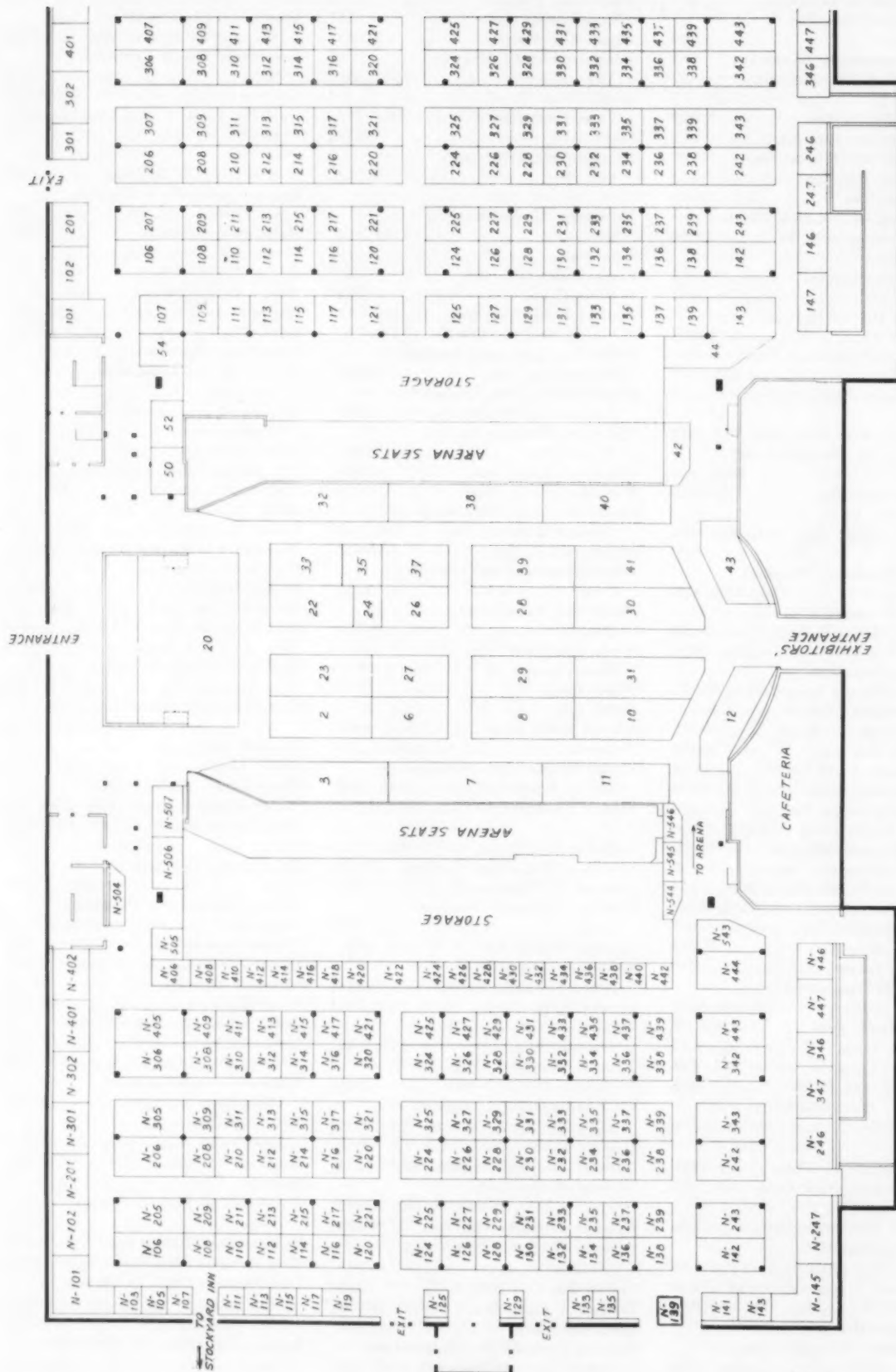
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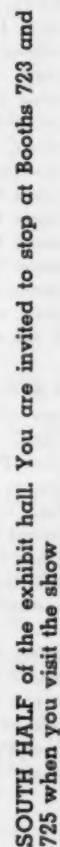
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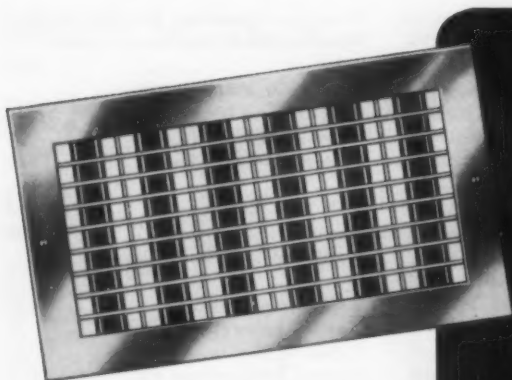
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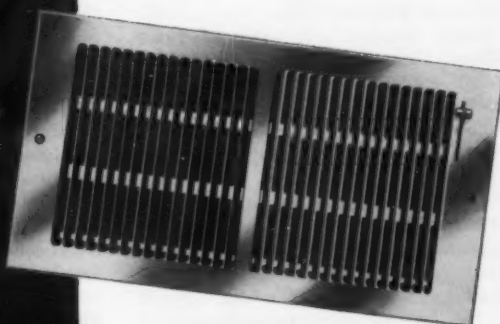
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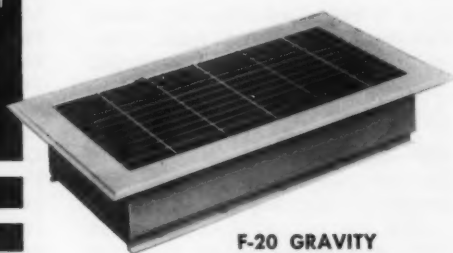


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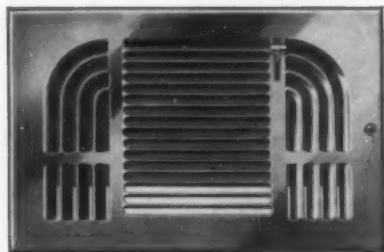


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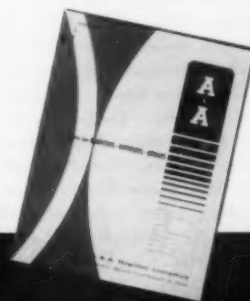
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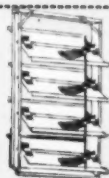
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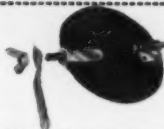
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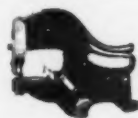
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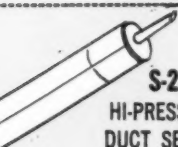
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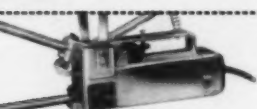
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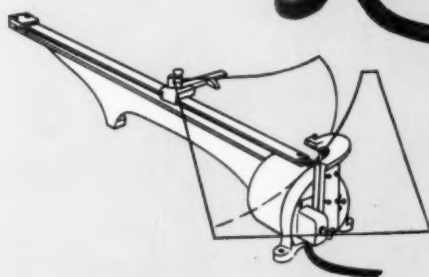
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CUSTOMER IS INVITED to fill out card attached to direct mail piece

past season, a money-saving offer is made if the order is placed in time for an installation to be made during a certain period. For instance, mailings made during February and March offer an indoor-outdoor heating control system installed at no additional cost when an order that can be handled during the month of April is placed.

Also enclosed with this sales promotion letter is a 12-page booklet entitled "How to Enjoy Comfort Heating," (which can be obtained from the National Warm Air Heating and Air Conditioning Association). This booklet describes the need for modernization of old and out-of-date heating systems and points out in kitchen English how the prospect will benefit by having this type of work done. The booklet also has a guide for selecting a dealer-contractor capable of doing the right kind of job for the prospect.

Mr. Downs explains in his letter why the Downs Heating Service is the company that the prospect should select. This is effectively done in an attached bright colored flyer that asks the question: "Why Downs Heating Service?"

The answer to this question deals with five pertinent points, explained in full. They are: 1) experience, 2) better equipment, 3) better engineering, 4) better workmanship, 5) better service.

Each of these is expressed in terms the prospect can understand and evaluate, and incorporates the names of companies known or recognized by prospects. For instance, under the heading of "Better Workmanship" appears this explanation: "All carpenter work, cement work, sheet metal work, electric wiring and plumbing is installed by trained men specializing in each of these trades."

The Key to Greater Profits...

FRASER-JOHNSTON 1961 VALUE LINE GAS FURNACES, AIR CONDITIONING UNITS AND HEAT PUMPS, BOTH SELF-CONTAINED AND REMOTE



The many benefits and exclusive features of FRASER-JOHNSTON products are like a magic key to help you open more doors—close more sales—**make bigger profits!**

Here is a **complete line** of top quality heating and cooling equipment that assures your customers long, carefree operation, easy servicing and quietness to a degree once thought unattainable.

All units are precision built under strict quality control to heavy duty standards. And they are factory tested under actual operating conditions. Compare—and see why these are the best engineered all-year air conditioning units on the market

THE VALUE LINE OF THE



MODEL CN

FRASER-JOHNSTON GAS FIRED FURNACES

◀ CN-CON
(Upflow)

RN-RDN
(Downflow) ▶

Models CN and RN furnaces are designed for the future addition of cooling. Their large, 13½"-diameter, centrifugal, belt-driven blowers deliver large quantities of air at low speed, ultra-quiet operation. CDN and RDN are direct drive.

Models CN & RN—60,000 to 200,000 BTU/Hr. Input*
Models CDN & RDN—60,000 to 125,000 BTU/Hr. Input



MODEL RN



MODEL C

◀ C-CD
(Upflow)

R-RD
(Downflow) ▶

Models C and CD furnaces are only 54 inches high. Models R and RD are for installation where air is delivered below floor level, such as perimeter heating systems. All FRASER-JOHNSTON furnaces are attractively finished in golden tan—die pressed—precision built—completely welded.

Models C & R—60,000 to 250,000 BTU/Hr. Input*
Models CD & RD—65,000 to 125,000 BTU/Hr. Input

All furnaces are AGA approved.

*Models CN, RN, C, R, CA & RA bank to 1,000,000 BTU or more.



MODEL R

**FRASER-JOHNSTON
UPFLOW, DOWNFLOW
AND HORIZONTAL
FURNACES WITH
EVAPORATORS AND
CONDENSING UNITS**



FRASER-JOHNSTON makes the finest cooling and dehumidifying coils in the industry. Advanced design eliminates humidity build-up on the off cycle. All moisture removed from the air is immediately drained from air stream.



MODEL CA (Upflow)

Designed specifically for heating and cooling operation, these furnaces have built-in evaporator coils, plus the superior qualities of the heating furnaces and the greater air handling capacity of large diameter, centrifugal blowers. They offer quiet, efficient performance for a wide variety of heating and cooling applications. Belt drive models in seven sizes from 60,000 to 200,000 BTU/Hr. Input, bank to 1,000,000 BTU. Direct drive models in 60,000 to 125,000 BTU/Hr. Input.

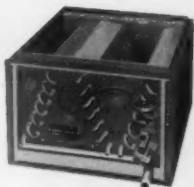


MODEL RA (Downflow)



MODEL HN (belt drive) furnace and evaporator for horizontal application. Six horizontal sizes available from 70,000 to 150,000 BTU/Hr. Input.

MODEL HND (direct drive). In 4 sizes from 70,000 to 100,000 BTU/Hr. Input.



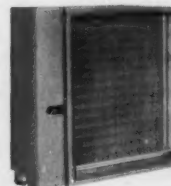
C SERIES

Companion to furnace Models C — sizes 80 to 250 and banks over 25 tons.



R SERIES

Companion to furnace Model R — sizes 80 to 250 and banks over 25 tons.



H SERIES

Companion to furnace Model HN — sizes 80 to 150.

A. R. I. rated when used with the proper Fraser-Johnston condensing unit.

AIR CONDITIONING INDUSTRY

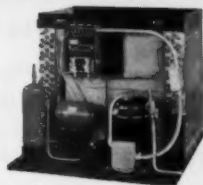


**MODEL HB OR HBP
AIR HANDLING UNIT.**



MODEL F or FB in 2, 3, 3½, 4, 5, 7½, 10 and 15 nominal tons. **MODEL E**, 2, 3, 3½, and 4 nominal tons. Heavy duty to suit commercial applications. Weatherproof and easily serviced while in operation.

A. R. I. rated when used with the proper Fraser-Johnston evaporator.



MODEL A, with metal weatherproof enclosure in 1, 2, 3, 4, and 5 tons uses an extra large, extremely quiet centrifugal fan.

REMOTE AIR CONDITIONING UNITS AND HEAT Pumps

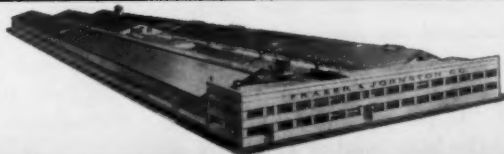
FRASER-JOHNSTON offers both air-to-air heat pumps and air conditioning units. There is a Fraser-Johnston condensing unit to fit every climate. **FRASER-JOHNSTON** cooling units are U.L. Approved.



**MODEL 112 FHP
AIR CONDITIONING UNIT.**

SELF CONTAINED AIR CONDITIONING UNITS AND HEAT Pumps

Designed for high ambient temperatures in sizes 3, 4, 5, 7½, 10 and 15 nominal tons. All U.L. Approved. Weatherproof and easily serviced in operation.



Fraser-Johnston

1900 - 17TH ST. • SAN FRANCISCO, CALIF.
OVER A QUARTER CENTURY OF LEADERSHIP

A Conditional Sale Is Incomplete Without Filing of Exhibit "A"

... which describes in detail the equipment referred to generally in the sales contract

CONDITIONAL SALES contracts used in the air conditioning or warm air heating business must follow the path charted by the law. Consequences of a failure so to do, and the worthlessness of agreements that fail to follow the statutes was well illustrated in a case before a northwestern state court.

Statute in that state, which is substantially the same as those of other states throughout the country, is: "Every provision in a conditional sale reserving property in the seller, shall be void as to any purchaser from or creditor of the buyer who, without notice of such provision, purchases the goods or acquires by attachment or levy a lien upon them before the contract or a copy thereof shall be filed as hereinafter provided, unless such contract or a copy is so filed within ten days after making of the conditional sale."

Exhibit "A" Not Attached

Here the conditional sales agreement had been properly signed, executed and filed. However, in that agreement the description of the goods was set out, "As per plans and specifications, the latter marked Exhibit A and attached hereto and made a part hereof." Unfortunately for the dealer-contractor the specifications referred to in the agreement as "attached" were not attached nor filed with the contract.

Basing its conclusion on the authority of an earlier decision the court held here, "Without a description of the property sold the contract was void and reference to it had no effect whatever."

In the case to which the court made reference there was the same sort of omission of specifications. The court had said of this omission, "We see no reason to conclude that the filing of a contract with a part omitted — and in some respects the most important part from the standpoint of notice — should be considered as adequate filing."

Must File Entire Contract

"If this provision may be omitted the question arises — what other provisions likewise can be omitted? Would they include the consideration, or the name of the purchaser, or the terms upon which title is reserved? There seems no reason here why the entire contract should not be filed as a requisite to adequate notice."

Several years ago in one of the Atlantic states an agreement of this character was filed, in which it was recited, "Know all men by these presents that I, Bessie Rose, hereafter referred to as buyer, do hereby acknowledge the receipt from Hannah Salkind, hereinafter referred to as the seller, of certain machinery parts, plant and

equipment described in a schedule hereto annexed and made a part hereof and referred to as exhibit A."

This schedule, referred to as being annexed and made a part thereof and referred to as Exhibit A, was neither annexed nor filed. In the disposition of this incident the Federal court set out in detail its grounds for holding that the filing of a defective document of this sort was not a compliance with the statute.

Provisions of Sales Act

"It is because of this omission that the trustee in bankruptcy contends that the conditional sales contract was not filed in accordance with the provisions of the Uniform Sales Act and was therefore void as to him.

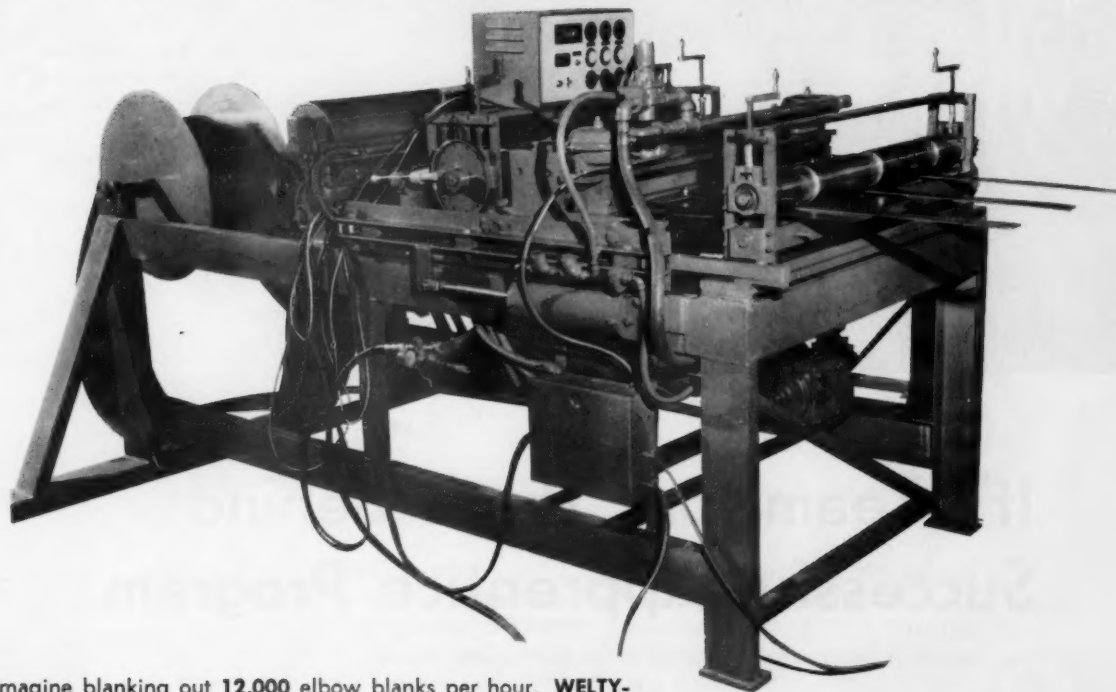
"Whether this is so, depends, we think, upon whether the paper as filed was a complete conditional sales contract or whether it was only a portion of a contract from which a material part had been omitted. If the latter, the filing of the part would not operate under the Uniform Sales Act to protect the title of the seller.

"In our opinion the answer to this inquiry must be that a material part of the contract was omitted from the document as filed and that its filing, therefore, does not furnish support for this action."



NEW WELTY-WAY SLEAR

SLITS, SHEARS AND FEEDS . . . AUTOMATICALLY



Imagine blanking out **12,000** elbow blanks per hour. **WELTY-WAY'S NEW SLEAR** does! **WELTY-WAY** feeds metal of any length . . . cut to the exact $\frac{1}{8}$ inch . . . into your fabrication machine. It **supports** metal coil, **evenly feeds** metal, **pulls** metal from coil, **levels it**, **slits it**, **shears it**, **moves it** through the shear and **feeds** it into your fabrication machine. **WELTY-WAY** increases production more than 50% while reducing labor costs!

NEW

- **WELTY-WAY SLEAR**
- **WELTY-WAY CONDUCTOR PIPE MACHINE**
- **WELTY-WAY AUTOMATIC HI-SPEED GUTTER MACHINE**
- **WELTY-WAY COLLAR MACHINE**

WATCH WELTY-WAY WORK

See automation for panel and roll forming machines operate at the INTERNATIONAL HEATING & AIR-CONDITIONING EXPOSITION, International Amphitheatre, Chicago, Ill., Feb. 13-16. **WELTY-WAY** booth No. 106 near STOCKYARD INN entrance.



Welty-Way PRODUCTS, INC.

714 1st Avenue N.W.
CEDAR RAPIDS, IOWA

If you aren't planning to attend the Exposition, WRITE TODAY

WHAT ASSOCIATIONS ARE DOING



WORKING AS A TEAM, sheet metal contractors, union officers and association secretaries review apprenticeship training program. From left are: H. Mayne Stanton, James T. Tracy, Otto A. Wendt, E. B. Brown Jr., A. H. Cronin, and Henry J. Couch

It's Teamwork That's Behind Successful Apprentice Program



CONGRATULATIONS upon earning his sheet metal journeyman's pin, completion certificate and Chicago Board of Education diploma are extended to David Ward (center) by his employer, W. A. Kuechenberg (left) and James E. McClellan, president, Ventilating and Air Conditioning Contractors' Association of Chicago

... new journeymen are told.

Speaker outlines contributions of contractors, instructors, union officers and fellow journeymen

CHICAGO — "Take a good look at these 15 men sitting at the head table. Most of them are sheet metal contractors. They got where they are through diligent work as apprentices, journeymen, foremen and contractors. Their positions should represent your goal," said A. H. Cronin, president and business manager, Sheet Metal Workers' International Association, Local 73 of Chicago, Cook and Lake Counties, Ill. Mr. Cronin was addressing a group of 63 new journeymen who had recently completed their four year indenture as sheet metal apprentices.

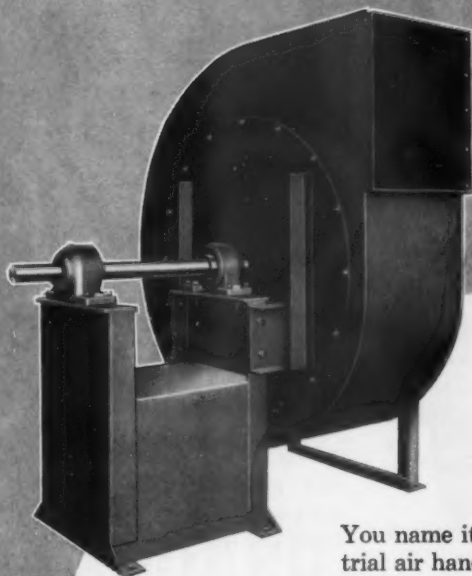
Continuing his advice to the new journeymen, Mr. Cronin

said: "You'll learn many things during the next few years that were never touched upon during the past four years while you were apprentices attending school. If you want to advance in this industry, you must continually apply yourself to solving problems that come up on the job, learn about the use of new tools and new techniques, follow instructions from your employer and keep an open mind toward his requests."

Supporting Mr. Cronin's suggestions, James T. Tracy, secretary-treasurer, Local 73, said, "You owe the employers a great

(Continued on page 140)

How does industry rate CLARAGE?



EXAMPLE:

Over 1000 Clarage fans of this type are serving one manufacturer alone.

RE-ORDERS . . . RE-ORDERS . . . RE-ORDERS

You name it . . . Clarage has it for virtually any industrial air handling assignment.

Take the Type XL Fan shown. It's built in 16 sizes and four arrangements for volumes to 130,000 CFM, temperatures to 1000°F., pressures to 18". AMCA Certified Rating Seal applies to the three different wheels available—open, rim, and backplate types.

In the Clarage tradition of heavier duty construction, here is *quality* equipment assuring better results over a longer period of service. No wonder all 100 of America's 100 largest industrial corporations are Clarage users. If you too are after air handling and conditioning equipment that has what it takes—in every respect—contact our nearest sales engineering office.

CERTIFIED RATINGS

Certified Ratings are the result of tests made by the manufacturer in accordance with Standard Test Codes adopted by the Air Moving and Conditioning Association, Inc. In Heating and Cooling Association, Inc. is successor Industrial Unit Heater Association, National Association of Fan Manufacturers, Inc. and Power Fan Manufacturers Association.

AUTHORIZED BY

AMCA

61951 AIR MOVING AND CONDITIONING ASSOCIATION, INC.

Dependable equipment for making air your servant

CLARAGE FAN COMPANY

Kalamazoo, Michigan

SALES ENGINEERING OFFICES IN ALL PRINCIPAL CITIES • IN CANADA: Canada Fans, Ltd., 4285 Richelieu St., Montreal

Team Spirit Responsible for Success Of Apprentice Training Program

(Continued from page 138)

deal because of the high cost involved in providing you with such a thorough training program and the time to attend school. Repayment for their support is your responsibility and can only be discharged by giving them a full day's work each day.

Everyone Contributes

"This training program is the result of a great team spirit. Everyone connected with it — contractors, instructors, union officers and fellow journeymen — have made contributions in both time and money. You, too, must share in the responsibility of adding to the industry's prestige."

Subjects Studied

The apprenticeship training program completed by this group of 63 required that each apprentice attend school one eight-hour day each week for 49 weeks a year and put in 32 hours a week on the job for four years. Subjects covered during the four year period include: soldering; riveting; seaming; elbows, angles and tees; transitions and offsets; tapers and wye branches; hoods and canopies; gutters; arc and gas welding.

In addition to the manual skills taught, emphasis is placed upon: review of arithmetic; linear measure; angular measure; areas; volumes; weights; costs; sheet metal special problems; use of trade tables, charts and graphs; and duct sizing for heating and air conditioning.

Additional training is given on

the elements of pattern drafting and layout. Subjects covered are: introduction to pattern development; elbows and branches; transitions; offsets; intersections; hoods and canopies; parallel development; radial line; and triangulation.

Installation and servicing of equipment are covered in an Experimental Shop Course, where theory is put into practice in the general fields of:

A—Equipment and Tools

- 1) Moving, setting, lifting and hanging equipment.
- 2) Introduction to new tools.

B—Air Distribution

- 1) Fans.
- 2) Low, medium and high pressure systems.
- 3) Testing and balancing.

C—Heating and Air Conditioning

- 1) Installation and service.
- 2) Adjustment and balancing.

D—General Work

- 1) Dust collecting.
- 2) Flashing.
- 3) Roofing.
- 4) Cornice and skylight.

Program a Joint Project

This training program was developed by a joint apprenticeship committee made up of members from the four sheet metal contractor associations serving the Chicago, Cook and Lake County areas and members of Local 73. These associations are: The Ventilating and Air Conditioning Contractors' Association of Chicago; The Sheet Metal Contractors of Greater Chicago; The Air Conditioning Contractors' Alliance; and Blow Pipe and Dust Control Industry of Chicago.

Hold Gas Vent Meeting At Kalamazoo

KALAMAZOO, MICH. — "Heat in Harness" is the title of a film on safety gas vent pipe which was presented at a recent meeting of the Kalamazoo Heating & Air Conditioning Association. Edwin Carlson, Metalbestos Div., William Wallace Co., made the presentation.

The association recently elected Lyle Buttery to serve as president during 1961. Other officers are: vice president, Phillip Fenstermacher; secretary, Myron A. Rice; and treasurer, A. Vosburg.

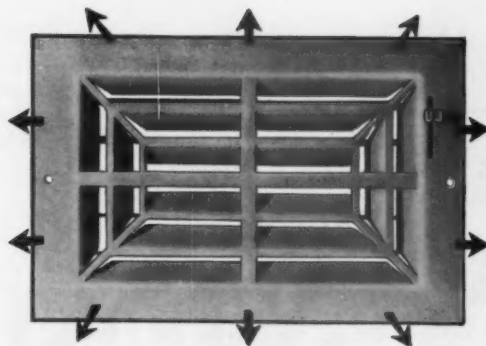
Discuss Selling At Columbus

COLUMBUS, OHIO — Selling in today's market was the topic discussed at a recent meeting of the Heating, Air Conditioning and Sheet Metal Association of Columbus. Ralph G. Negri, manager of the Columbus office of National Cash Register Co., was guest speaker.

Detroit Associates Give Christmas Party

DETROIT — Associate members of the Detroit Heating and Air Conditioning Association sponsored a Christmas party for members and their families at the Glen Oaks Golf and Country Club. Cocktails were served between 7:30 and 8:00. Following a steak dinner, a four-piece orchestra provided music for dancing until 1:00 a.m.

(More association news on page 142)

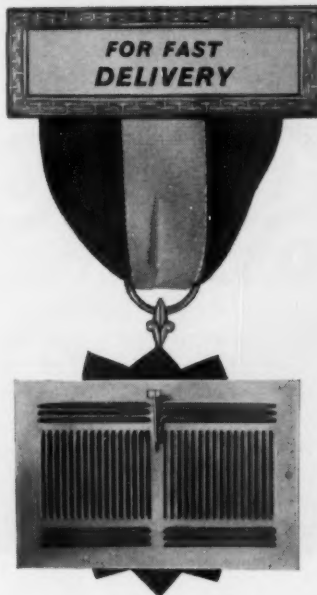


**HERE'S A NEW
REASON WHY
They'll Pin
More Medals On Us**

**NEW MULTI-LOUVER
CEILING AIR DIFFUSERS
Keep Quality High —
Costs Low!**

**SEE
STANDARD
BOOTH
1054**

**International Heating & Air
Conditioning Exposition**



Why? Because *their* CONTRACTOR-CUSTOMERS are always pleased with Standard Registers and Grilles. Contractors like the engineering, quality, design, delivery and satisfaction they receive with Standard Registers and Grilles. No wonder that Standard is known as the "no-problem" line for WHOLESALERS to handle—and for CONTRACTORS to install.

**Wholesalers and Contractors
You Can Profit
With the STANDARD Line of
Registers and Grilles**

Mail This Coupon Today For Additional Details

STANDARD STAMPING & PERFORATING CO.
3137 W. 49th Place, Chicago 32, Ill.

Gentlemen:

- ☐ I am a WHOLESALER. Please send me information on representing the Standard Line.
☐ I am a CONTRACTOR. Please send additional details and the name of my nearest Standard Wholesaler.

NAME _____ TITLE _____

COMPANY _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

WITH THE ASSOCIATIONS

(Continued from page 140)

New York State Association Works On Plans for Syracuse Convention

BUFFALO — Plans for the 1961 convention of the New York State Sheet Metal, Roofing & Air Conditioning Contractors' Association, to be held Feb. 5-8 at the Hotel Syracuse, are progressing rapidly, according to Clarence J. Meyer, executive secretary of the group. At a recent meeting of the convention committee, the following chairmen were appointed: general chairman, J. Arthur Heaphy; honorary chairman, William R. Nolder; co-chairman, Frank Cashier; reception committee, Karl Evertz and Stanley Korzeniewski; program advertising, Elwood deBerjois and Michael Neveldine; entertainment, Robert and William Giarrosso.

Discuss Electric Heat at New England Meeting

LEXINGTON, MASS. — The history of electric heat, its possible future and its effect on the sheet metal and air conditioning business, was discussed by speakers representing the electric industry at a recent meeting of the Sheet Metal and Air Conditioning Contractors' Association of New England.

Edward A. Brown, Suburban Electric Co., Malden, Mass., explained "The Reason Why Electric Heating Is Coming to New England." William A. Sherman, New England Electric System, outlined "The Story of the Electric Heat Pump," and Clarence E. Chapman, Merrimack-Essex Electric Co., Lawrence, Mass., discussed "The New Integrated Lighting and Heating Concept."

A tentative program has been set up as follows:

Sunday, February 5

Reception

Monday, February 6

Group 194 compensation report for year 1960

Air conditioning information — Carrier Corp.

Tuesday, February 7

Warm air heating and general sales information — Lennox Furnace Co.

Profit opportunities in humidification — George Boeddener, executive vice president, National Humidification Association

Built-up roofing — E. L. Ostic, The Ruberoid Co.

Terne metal roofing — Follansbee Steel Corp.

Roof drainage — Allen Kirby Jr., Berger Bros. Co.

Banquet, floor show and dancing

Wednesday, February 8

Business session and election of officers

IHACI Elects Officers for '61

LOS ANGELES — Arthur Horn, sales manager of Day & Night Mfg. Co.'s heating and air conditioning division, is the new president of the Institute of Heating & Air Conditioning Industries. James Williams, Permanent Pipe Products, is the group's vice president, and Dale Davenport, Granada Heating and Air Conditioning Co., is secretary-treasurer.

Krogstad Elected AMCA President

DETROIT — Robert W. Krogstad was elected president of the Air Moving & Conditioning Association, Inc., at the group's recent annual meeting held in Hot Springs, Va. Mr. Krogstad has served on the board of directors, has also been active in association work with Product Division IV, the power roof ventilator division of AMCA.

Product Show To Be Held During Indiana Convention

INDIANAPOLIS — "Progress of Our Industry in the 60's" is the theme around which the program for the 43rd annual convention of Sheet Metal and Warm Air Heating Contractors' Association of Indiana is being built. Included in the program will be an analysis of the market, discussions on sales promotion and the best media to use, "diseases" of our industry and how to cure them, and manage-

ment and operation of large and small companies.

During the convention, the third Indiana Heating and Sheet Metal Show will be held at the Hotel Severin. Sponsor members of the association are invited to take part in the show and to set up exhibits of heating air conditioning and sheet metal products that they have to sell.

(More association news on page 144)

Now Sell the Mass Market!

NEW **Coolerator 2 H.P.**

REMOTE AIR CONDITIONING

PRICED FOR THE AVERAGE HOME!



**BLOWER-COIL UNIT
WITH OR WITHOUT
DECORATIVE FRONT**

VERTICAL (A-TYPE) COIL

NEW 2 H.P. CONDENSER has over-sized components to deliver a full 24,000 B.T.U. capacity. Available with Vertical "A" coil or blower-coil for complete installation flexibility. Also available as heat pump with 23,000 B.T.U. cooling capacity, 22,000 B.T.U. heating capacity.

Here's the remote system that gets you into the mass market profitably! Top quality throughout, this new Coolerator central system eliminates excessive call-backs . . . provides equal installation flexibility for new or existing homes . . . and most important, carries a

price that gives you the edge on competition. It's priced so low you can even sell prospects who are considering less efficient cooling with multiple room air conditioners! All this . . . and you get top profits, too, with the Coolerator 4-Point Profit Program!

**Exclusive
Coolerator
Profit
Plan!**



1. QUALITY PRODUCTS! Every unit rigorously performance tested.

2. FEATURES THAT SELL! Exclusive features, plus all the popular ones!

3. DIRECT FROM FACTORY PURCHASING! Plus a nationwide warehouse and service system!

4. PROTECTED TERRITORIES! A protected market for every dealer!

ALBION DIVISION

McGRAW-EDISON COMPANY
Albion, Michigan

PRODUCTS OF



In Canada: 574 Fourth Line, Oakville, Ont.



MAIL THIS COUPON TODAY!

ALBION DIVISION, DEPT. DC-1
McGraw-Edison Company, Albion, Michigan

Please send complete information on the new Coolerator 2 H.P. Remote Air Conditioning System and the 4-Point Bonus Profit Plan.

NAME _____

COMPANY _____

STREET _____

CITY _____ STATE _____

You Can Avoid Underpricing

... by using proper estimating techniques

ERIE, PA. — Results of a study on estimating techniques were recently summarized by John Henke, Gust Krack Co., for the 26 members of the Erie Sheet Metal, Air Conditioning and Roofing Contractors' Association. In listing the various methods currently in use, Mr. Henke named:

- 1) The multiplier method.
- 2) Overhead added on labor and markup on material method.
- 3) Guesstimating (by feet, by pound, by the square, by number of outlets or rooms, by Btuh or by the ton).

"The No. 3 method," Mr. Henke said, "is only used as a quick guess or check against a proper estimate. It is important to keep job records and spot check them with the estimate, especially on typical jobs. Check material costs, freight, handling and taxes.

"The No. 2 method with markup on material and overhead applied on labor only with profit on both is the favorite with many old timers.

Multiplier Method Is Best

"The No. 1 method, in my opinion, is the best all around way. You'll never underprice any job. Start out your year with an appraisal of all overhead items — and don't forget your own salary. Then decide on the amount of business expected for the year. Apply these figures to a business diagram and determine your breakeven point and multiplier. Don't be afraid to add a modest profit — that's necessary. The figures in the example presented here are rounded out for convenience. However, in general, they should be pretty close to the real ones.

Allow for Contingencies in Labor Estimates

"When we deal with labor, we've got to remember we're dealing with human beings and not machines. When estimating the hours to do a job, add about 20 percent to the hours arrived at for contingencies.

"One other thing. Let me caution you against working day and night, Sundays and holidays. Price your jobs properly and you won't need to."

(More association news on page 146)

Sample Based on \$100,000 Annual Volume

<i>Fixed Expenses (Overhead)</i>		
Salary of owner	\$12,500	12.5%
Salary of secretary	4,000	4.0
Rent	2,400	2.4
Heat, light and power	600	0.6
Taxes	900	0.9
Insurance	900	0.9
Depreciation	1,400	1.4
Interest	300	0.3
Miscellaneous	1,500	1.5
	<hr/>	<hr/>
	\$24,500	24.5%
<i>Variable Expenses</i>		
Materials	\$37,500	37.5%
Labor	24,000	24.0
Advertising	1,000	1.0
Telephone	200	0.2
Postage	200	0.2
Stationery	300	0.3
Truck and travel	1,400	1.4
Association dues — local, state and national	200	0.2
Donations	200	0.2
Miscellaneous	1,500	1.5
	<hr/>	<hr/>
	\$66,500	66.5%

Breakeven point equals overhead plus variable expenses, in this case \$91,000.

Overhead and variable expense percentages were figured as 10% of an annual volume of \$91,000, for a total of approximately \$100,000.

$$\text{Multiplier} = \frac{\text{Breakeven volume}}{\text{Variable expenses}}$$

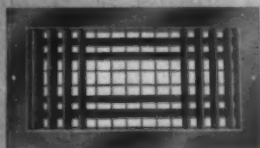
$$\frac{91,000}{66,500} = \text{approximately } 1.4 \text{ to break even}$$

<i>Sample Job</i>	
Material	\$300.00
Labor	96.00
	<hr/>
	\$396.00
Multiplying by 1.4	
(to break even) =	\$554.40
Profit, 10%	55.44
	<hr/>
Selling price	\$609.84

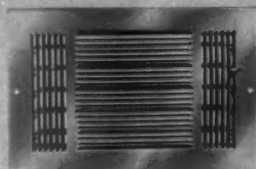
*You can predict performance
if they are...*

**Air
Mate**

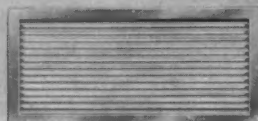
REGISTERS, GRILLES
DIFFUSERS



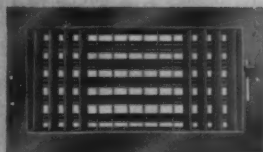
ADJUSTABLE
DEFLECTION GRILLES



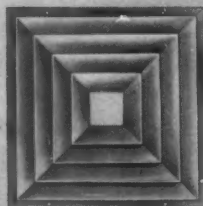
SIDEWALL OR
CEILING DIFFUSERS



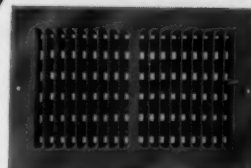
RETURN
AIR GRILLES



ADJUSTABLE
DEFLECTION REGISTERS



SQUARE
DIFFUSERS



MULTI-SHUTTER
WALL REGISTERS



RETURN
AIR GRILLES
FLEXIBLE FIN TYPE



ROUND
DIFFUSERS

—ALSO—

FILTER FRAMES
WITH HINGED GRILLES
Perimeter Floor Registers

42 TYPES

OVER 3,000 LISTED SIZES

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Florida Associations Study Contractor Responsibility Law

LAKELAND, FLA. — A proposed "contractor responsibility law" is currently being studied by various contractor groups in Florida, according to the Roofing & Sheet Metal Contractors Association of Florida. The proposed bill provides for statewide licensing of general contractors and major subcontractors, including subcontractors in the air conditioning, warm

air heating, ventilating and roofing classifications.

According to M. J. Strong, RSMCA president, the proposed bill would require that contractors — general and sub — continually prove their financial stability. Failure to do so would result in suspension or revocation of their state license.

He pointed out that the draft

— if it becomes law — would in no way restrict the right of cities and counties to regulate licensing and examination within their own boundaries.

"It would, however, require that contractors be qualified with the State Contractors Licensing Board before applying for county or municipal licenses," he said.

(More association news on page 148)

Coming Events

(Additional Listings on Page 148)

January

Jan. 29-Feb. 2 — National Association of Home Builders, annual convention. New Exposition Center, Chicago. John M. Dickerman, executive director, 1625 L St., N. W., Washington 6, D. C.

February

Feb. 2-3 — Sheet Metal and Warm Air Heating Contractors' Association of Indiana, annual convention. Hotel Severin, Indianapolis, Ind. Ed. Lewis, executive secretary, 1414 E. Southport Rd., Indianapolis.

Feb. 5-8 — New York State Sheet Metal, Roofing and Air Conditioning Contractors' Association, annual convention. Hotel Syracuse, Syracuse, N.Y. Clarence J. Meyer, 569 Genesee St., Buffalo.

Feb. 13-16 — American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., semi-annual meeting, Conrad Hilton Hotel, Chicago. R. C. Cross, executive secretary, 234 Fifth Ave., New York.

Feb. 13-16 — International Heating & Air-Conditioning Exposition. International Amphitheatre, Chicago. E. K. Stevens, exposi-

tion manager, International Exposition Co., 480 Lexington Ave., New York 17.

Feb. 17-18 — Sheet Metal and Roofing Contractor's Association of Minnesota, annual convention. Kahler Hotel, Rochester, Minn. Dale O. Lynch, executive secretary, 5 W. Lake St., Minneapolis 8.

Feb. 20-23 — Annual Industrial Ventilation Conference. Kellogg Center, Michigan State University, East Lansing, Mich. James C. Barrett, Michigan Department of Health, Lansing 4, Mich.

March

Mar. 6-8 — Sheet Metal Contractors' Association of Wisconsin, annual convention, Hotel Schroeder, Milwaukee. Robert S. Schmieder, executive secretary, 8320 W. Blue-
mond Rd., Milwaukee.

Mar. 6-8 — Ohio Sheet Metal Contractors' Association, annual convention. Netherlands-Hilton Hotel, Cincinnati, Ohio. Don Dieterle, executive secretary, 1603 S. Cove Blvd., Toledo 6.

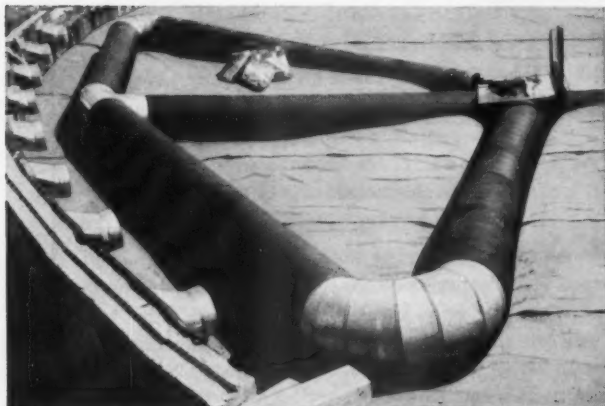
Mar. 15-17 — Michigan Heating & Sheet Metal Association, annual convention. Hotel Henrose, Detroit. N. J. Biddle, secretary 3035 E. Grand Blvd., Detroit.

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ADVANTAGES AND FEATURES

SONOAIRDUCT is aluminum foil-lined for lower co-efficient of air friction. The asphalt-filled outer wrap retards moisture penetration through the duct wall. This thick duct wall, coupled with the aluminum foil lining, provides an insulation value which minimizes loss of heat or cold from plenum to register. (The air friction loss of 8 in. SONOAIRDUCT is 0.151 in. of water per 100 ft. at a velocity of 800 ft. per minute. At 70°F, SONOAIRDUCT has a heat conductivity of 0.46 BTU per hour per sq. ft. per degree F per inch of thickness. This low heat loss prevents hot spots in the slab above the encased duct.) SONOAIRDUCT also possesses a sound deadening quality which minimizes transmission of noise from furnace and from room to room.

Since wall thickness increases with diameter, the high crushing strength of SONOAIRDUCT is maintained through every size. This lightweight duct will not chip, crack, or break when dropped—every piece is usable.

Sonoco SONOAIRDUCT is available in 23 sizes—2" to 36" I. D. Unless other lengths are specified, shipments will be made in standard lengths of 18'. Long lengths mean faster leveling and fewer joints to make and seal. This saves time, labor, and money in installation. It is easy to cut to exact length with a hand or power saw on the job. SONOAIRDUCT fits all standard metal bends, elbows, T's and registers. Joints may also be made without metal fittings by mitering the duct and using tape.

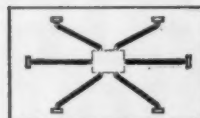
All installations should be made in accordance with SONOAIRDUCT Manual #557, which is available on request.

SONOCO SONOAIRDUCT FIBRE DUCT

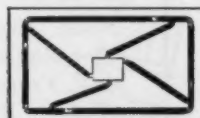
assures quality construction, saves time, labor, and money... in slab perimeter heating, cooling, and combination heating and cooling systems.

Sonoco SONOAIRDUCT is a round fibre duct lined with aluminum foil. A black, asphalt filled moisture-resistant exterior surface is made an integral part of the duct by a permanent bond. Waterproof adhesive is used throughout its laminated construction. It is especially designed for use as supply and return lines in gas and oil fired, slab floor perimeter heating, cooling, or combination systems, and can also be adapted for use in spot cooling and ventilating systems.

Sonoco SONOAIRDUCT Fibre Duct is made by one of the largest manufacturers of paper products in the world, and is subject to the highest standards of quality control throughout the production process. It meets or exceeds all F.H.A. criteria and test requirements for products in this category.



For radial perimeter systems



For loop perimeter systems

Side Rectangular Duct	CIRCULAR EQUIVALENTS OF RECTANGULAR DUCTS FOR EQUAL FRICTION AND CAPACITY																	
	6	7	8	9	10	11	12	13	14	15	16	17	18	19				
6	6.6																	
8	7.5	8.2	8.8															
10	8.4	9.1	9.8	10.4	10.9													
12	9.1	9.9	10.7	11.3	11.9	12.5	13.1											
14	9.8	10.7	11.5	12.2	12.9	13.5	14.2	14.7	15.3									
16	10.4	11.4	12.2	13.0	13.7	14.4	15.1	15.7	16.3	16.9	17.5							
18	11.0	11.9	12.9	13.7	14.5	15.3	16.0	16.6	17.3	17.9	18.5	19.1	19.7					
20	11.5	12.5	13.5	14.4	15.2	15.9	16.8	17.5	18.2	18.8	19.5	20.1	20.7	21.3				
24	12.4	13.6	14.6	15.6	16.6	17.5	18.3	19.1	19.8	20.6	21.3	21.9	22.6	23.2				
28	13.2	14.5	15.6	16.7	17.7	18.7	19.6	20.5	21.3	22.1	22.9	23.6	24.4	25.0				
30	13.6	14.9	16.1	17.2	18.3	19.3	20.2	21.1	22.0	22.9	23.7	24.4	25.2	25.9				
40	15.3	16.8	18.2	19.4	20.7	21.9	23.0	24.0	25.1	26.0	27.0	27.9	28.8	29.7				
50	16.8	18.4	19.9	21.3	22.7	24.0	25.2	26.4	27.6	28.7	29.8	30.8	31.8	32.8				
60	18.1	19.8	21.4	23.0	24.5	25.8	27.3	28.7	29.8	31.0	32.2	33.4	34.5	35.5				
70	19.2	21.0	22.8	24.5	26.1	27.6	29.1	30.4	31.8	33.1	34.3	35.6	36.8	37.9				

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SONOAIRDUCT SIZES AND WEIGHTS

Inside Diameter	Wall Thickness	Approx. Weight Per 1,000 Feet	Approx. No. Ft. in 40 Ft. Carload
2"	.125"	272	103,032 ft.
3"	.125"	398	41,850 ft.
4"	.150"	624	25,056 ft.
5"	.150"	773	17,280 ft.
6"	.175"	1,068	11,898 ft.
7"	.200"	1,411	9,144 ft.
8"	.200"	1,606	6,984 ft.
9"	.225"	2,020	5,346 ft.
10"	.225"	2,237	4,500 ft.
11"	.225"	2,456	3,402 ft.
12"	.225"	2,676	3,024 ft.
14"	.250"	3,446	2,142 ft.
16"	.300"	4,686	1,620 ft.
18"	.300"	5,262	1,170 ft.
20"	.375"	7,249	954 ft.
22"	.375"	7,971	792 ft.
24"	.375"	8,685	702 ft.
26"	.375"	9,395	576 ft.
28"	.375"	10,108	414 ft.
30"	.400"	11,525	414 ft.
32"	.400"	12,283	324 ft.
34"	.400"	13,042	306 ft.
36"	.400"	14,136	306 ft.

Coming Events

(Continued from page 146)

March

Mar. 23-25 — Southeast Trade Exposition sponsored by Sheet Metal, Roofing, Heating, Air Conditioning Contractors' Association of Georgia. B. L. Noblitt, executive secretary, 208 Red Rock Bldg., Atlanta 3.

April

Apr. 6-7 — Sheet Metal, Air Conditioning and Roofing Contractors Association of Illinois, annual convention. Pere Marquette Hotel, Peoria, Ill. M. P. Lauerma, secretary, 237 E. Tompkin St., Galesburg, Ill.

Apr. 10-12 — National Warm Air Heating & Air Conditioning Association of Canada, annual convention. Seaway Hotel, Toronto. T. A. Clark, general manager, 4195 Dundas St., W., Islington, Ont.

Apr. 13-15 — Gas Appliance Manufacturers' Association, annual convention. Boca Raton Club and Hotel, Boca Raton, Fla. Gas Appliance Manufacturers' Association, 60 E. 42nd St., New York 17.

Apr. 19-21 — National Association of Sheet Metal Distributors, spring convention. Sheraton-Cleveland Hotel, Cleveland. Thomas A. Fernley Jr., executive secretary, 1900 Arch St., Philadelphia 3.

Apr. 23-26 — Oil Heat Institute, annual convention. Statler-Hilton Hotel, Washington, D. C. Charles R. Burkhardt, managing director, 500 5th Ave., New York 36.

Apr. 24-26 — Sheet Metal and Air Conditioning Contractors' National Association, annual convention. Ambassador Hotel, Los Angeles. J. D. Wilder, executive secretary, 107 Center St., Elgin, Ill.

Apr. 28-29 — Sheet Metal, Air Conditioning and Roofing Contractors' Association of Pennsylvania, annual convention. Benjamin Franklin Hotel, Philadelphia. Earl W. Liebermann, secretary, 1411 Merchant St., Ambridge, Pa.

May

May 21-23 — Northamerican Heating & Air-conditioning Wholesalers, Inc., spring convention. Queen Elizabeth Hotel, Montreal. Wilbur R. Bull, managing director, 1200 W. Fifth Ave., Columbus 12, Ohio.

June

June 29-July 1 — Carolinas Roofing & Sheet Metal Contractors Association, annual convention. Ocean Forest Hotel, Myrtle Beach, S.C. H. J. Stockard Jr., executive secretary, Raleigh, N.C.

New York Apprentices Compete in State Contest

BUFFALO — Cash prizes are being offered to apprentices competing in the 1961 apprentice contest conducted by the New York State Apprenticeship Committee under the sponsorship of the New York State Sheet Metal, Roofing and Air Conditioning Contractors' Association. The contest, which closes January 25, is open to all apprentices in their first, second,

third or fourth year.

Each local joint apprenticeship committee is requested to conduct a contest among its apprentices, select the winning entry in each class, and mail the drawing and fitting to the chairman of the state apprenticeship committee, Joseph R. Stiglmeier. In any locality where there is only one or a small number of apprentices, any ap-

prentice desiring to enter the contest may do so by selecting one or more employers and an equal number of journeymen to act as a committee to conduct the contest.

Winners in the contest will be announced and awards will be presented at the closing of the state convention to be held in Syracuse.

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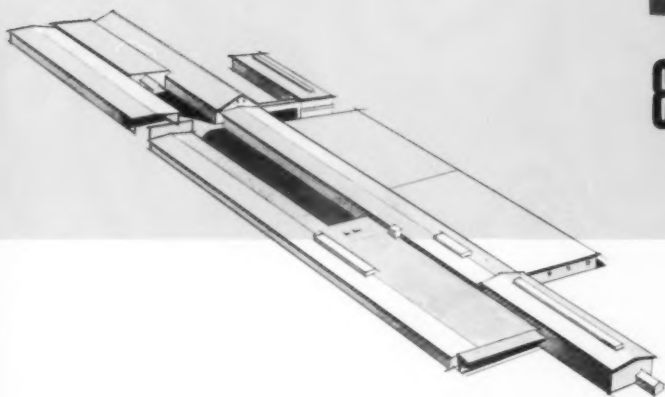
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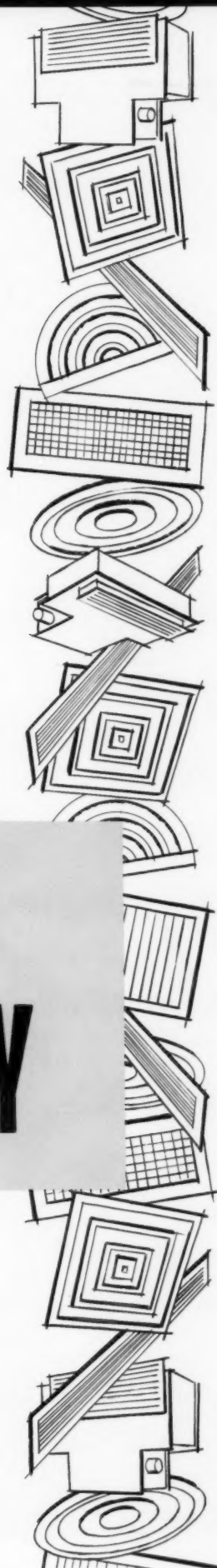


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ploughs...and two-thirds of the world's people still go to sleep hungry. ■ Will you help them till the fertile earth...through CARE? Wherever possible, CARE food distribution is coupled with a tools-for training program that enables men and women to become self-supporting. The need was never greater, the rewards never richer. ■ *Will you buy an extra tool*—to put into hands hungry for work, food, and dignity? ■ Send dollars to CARE, New York 16.

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(Space donated by this publication)

EQUIPMENT DEVELOPMENTS

The latest information on manufacturers' developments is presented here with brief summaries of the applications of these products. For additional product information which is available see this month's New Literature department

To obtain copies of the new equipment described here, circle the code number on the readers' service card opposite page 198, fill in your name and address and drop in the mail.

Condensing Units

"MICROMITE" COMPRESSOR featuring compactness and welded-steel hermetic sealing is included in new condensing unit line. Units are available in 2, 2½, and 3 ton



capacities. Sound level has been reduced by improved acoustic insulation and use of a larger, low-speed condenser fan, according to manufacturer. New control system eliminates rapid cycling and manual resetting of condensing unit. Units measure 44½ x 22½ x 22¼ in. Condenser is protected by mesh grille guards. Exterior metal surfaces are of corrosion-resistant zinc-coated steel—Carrier Corp., Carrier Parkway, Syracuse 1, N.Y.

(Circle No. 301 on Reply Card, page 199)

Thermoplastic Welder

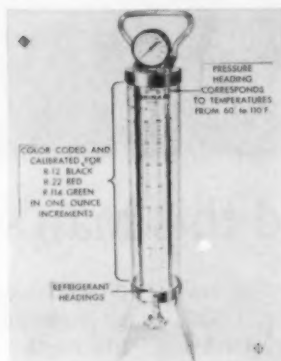
HAND WELDER and tacker for thermoplastics (Model 14-HW) is designed for use with such plastics as polyethylene, polypropylene, PVC. Unit is supplied with 320-watt heating element, one round tip, one tacker tip, and needle valve for air-flow control. Made of stainless steel, welder has 16-ft neoprene air-hose attached, comes assembled, and can be plugged into

115 volt a-c outlets—Kamlar Products Co., 932R Washington St., Norwood, Mass.

(Circle No. 302 on Reply Card, page 199)

Charging Cylinders

"DIAL-A-CHARGE" service cylinders permit recharging of cooling systems on the job. Device allows serviceman to compensate for volume fluctuations resulting from temperature variations by working directly with pressure. Serviceman "dials" plastic shroud—containing pressure volume relationship chart



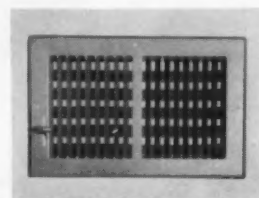
—to point where pressure heading over sight-glass tube corresponds to pressure gage reading. Manufacturer claims accuracy of plus or minus a quarter ounce of refrigerant. Models for 40 ounce capacity (12206) and 5 lb capacity (12550) are available—Robinair Mfg. Corp. Montpelier, Ohio.

(Circle No. 303 on Reply Card, page 199)

Registers

SHALLOW-VALVE registers featuring multi-louver damper (Series 10V) come in four sizes covering

installation requirements from 8 x 6 in. to 14 x 6 in. Face vanes are set at 45 deg angle, are ½ in. apart for two-way vertical deflection. Shallow valve design simplifies installation on conventional

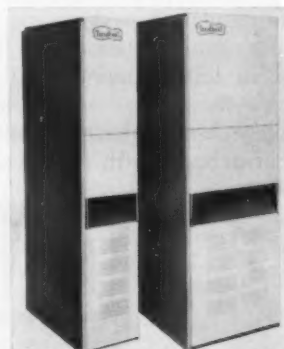


stackhead. Welded construction permits full control of high velocity air without whistle or rattle. Registers are finished in electrostatically applied baked-on medium beige enamel—Lima Register Co., 1790 N. Cable Rd., Lima, O.

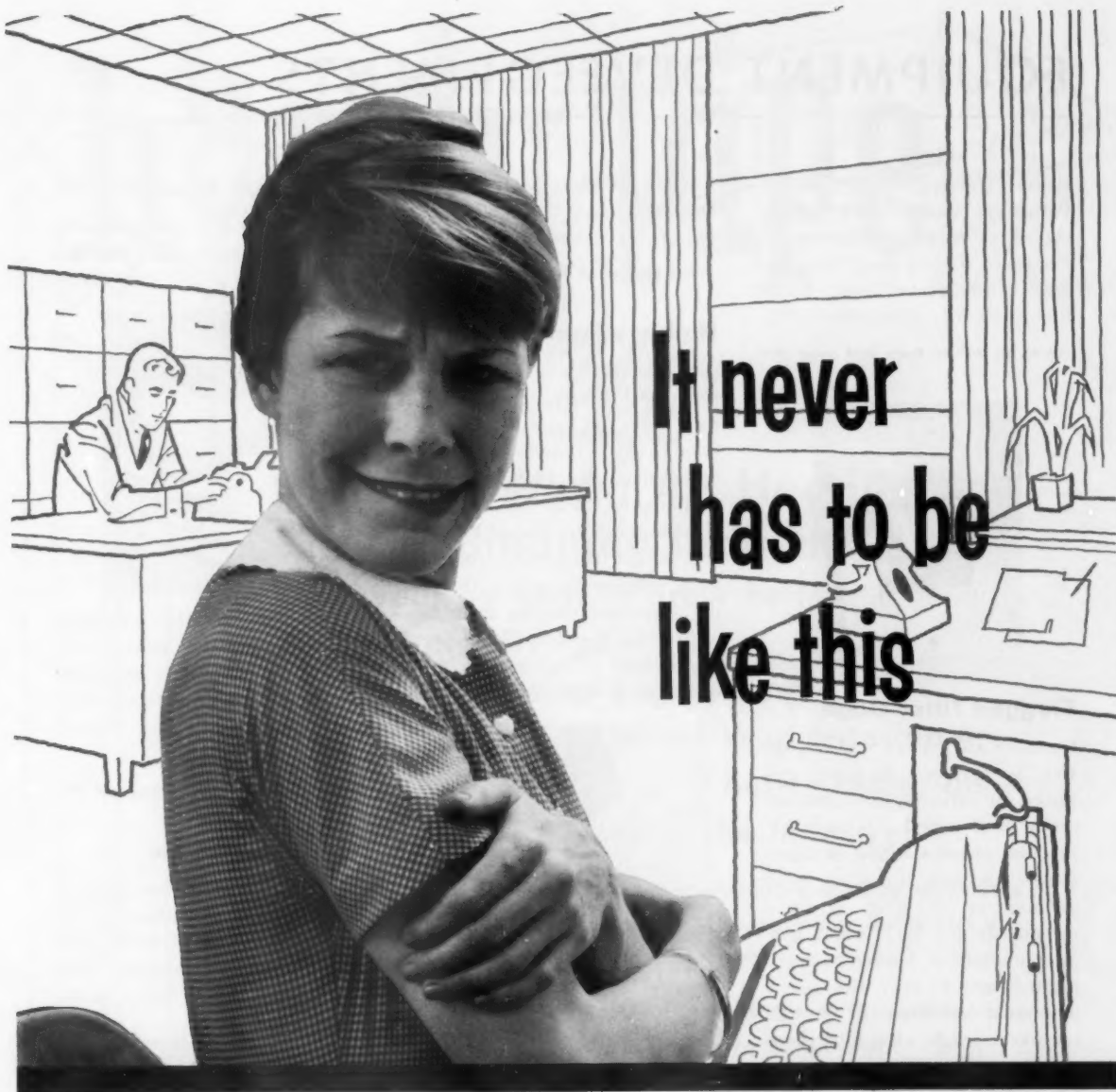
(Circle No. 304 on Reply Card, page 199)

Counterflow Furnaces

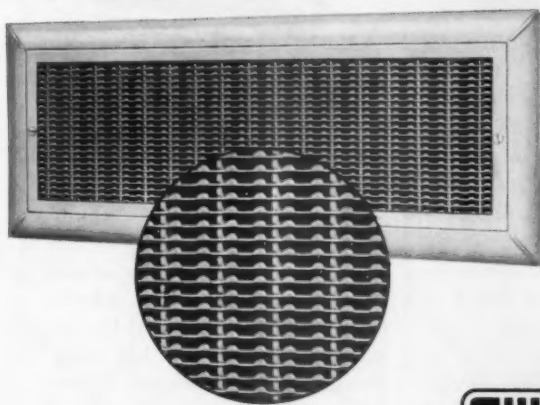
"TORIDHEET" gas-fired counterflow furnaces available in capacities of 80,000, 100,000, 120,000, 140,000, and 160,000 Btuh. The



80,000 Btuh unit has 4 in. flue pipe connection. One inch clearance at rear, sides and top allows units to be installed in small closet



**It never
has to be
like this**



Uni-Flo ENGINEERED
AIR DISTRIBUTION PRODUCTS



Drafts — a too-common complaint — can often be traced to sidewall diffusers which fail to truly diffuse the entering air. Barber-Colman sidewall diffusers prevent this problem. For complete information on these and other advanced Barber-Colman air distribution products, write today for descriptive literature.

BARBER-COLMAN COMPANY
Dept. M, 1106 Rock Street, Rockford, Illinois

EQUIPMENT DEVELOPMENTS

(Continued)

spaces, utility rooms or alcoves. Permanent washable filter is included as standard equipment—*Toridheet Division, Cleveland Steel Products Corp., 16025 Brookpark Rd., Cleveland 35, O.*

(Circle No. 305 on Reply Card, page 199)



Clogged Filter Gage

CLOGGED AIR FILTER warning device is designed for use with forced air furnaces, air conditioners or heat pumps. "Filter Flag" provides visual warning to homeowner whenever air filter needs cleaning or changing, is flush-mounted in hole made with a template on side of blower compartment. It may be used with special thermostat sub-bases to provide red warning light when filter needs attention. When filters on central air conditioning units become clogged, "Filter Flag" shuts off cooling unit to prevent possible coil freeze up—*Minneapolis-Honeywell, Residential Division, 2753 Fourth Ave., South, Minneapolis 8, Minn.*

(Circle No. 306 on Reply Card, page 199)

Metal Bending Tool

TWELVE POUND "Wonder Bender" bends flat bars of steel, iron, aluminum, brass, copper and other metals up to 3/16 x 2 in., and in rods up to 3/8 in. diameter. Tool has removable pivot pin allowing metal to be removed by slipping it off handle when forming circles or

hangers. Bending tool is 23 in. long—*Reiner & Campbell Co., 19 Euclid Ave., Newark 5, N. J.*

(Circle No. 307 on Reply Card, page 199)

Highboy Furnaces

GAS- AND OIL-FIRED highboy furnaces with cooling coil compartment form the basis for the "365 Conditionair" systems, which are designed so that heating and air conditioning may be installed simultaneously, or the cooling system added later. Coil compartment will handle coils with cooling capacities ranging from two to five tons. Gas furnaces measure 4 1/2 ft high x 2 1/4 ft deep, with widths varying with input capac-



ity from 14 to 23 in. Oil furnaces are 4 1/2 ft high and 3 ft deep, range in width from 23 to 31 in. for different Btuh output. Gas and oil furnaces will be offered in three model groupings over a full range of heating capacities, are designed for easy installation in utility rooms, closets or corner locations. All models are styled to fit in with modern furnishings, are finished in Cameo beige or Sahara tan baked enamel—*Delco Appliance, Division of General Motors Corp., P. O. Box 230, Rochester 1, N. Y.*

(Circle No. 308 on Reply Card, page 199)

Humidifier Assembly Kit

KIT HAS UNIT with glass evaporating pan, reversible valve seat with built-in splash shield. It is a coun-

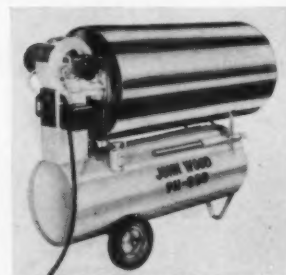


ter-balanced humidifier with stainless steel spring and holding rack. Model "K-711" can be assembled in minutes, according to manufacturer—*Skuttle Mfg. Co., Milford, Mich.*

(Circle No. 309 on Reply Card, page 199)

Portable Heaters

PH 350 AND PH 80 are designed for use in building under construction or other uses in which portable heating is required. Both units burn kerosene, No. 1 or No.



2 Diesel or fuel oil, do not require vents, and have three-way shutoff valves. Larger model has output of 350,000 Btuh, 10 in. wheels, weighs 230 lb. It has a 3/4 hp motor that operates on 120 volts. Smaller model delivers 80,000 Btuh—*John Wood Co. Heater and Tank Division, 100 Washington St., Conshohocken, Pa.*

(Circle No. 310 on Reply Card, page 199)

handy pipe

Grew Up

With the Warm Air Heating and
Air Conditioning Industry . . .
and, year by year, it grew better.

Better Design—

Better Engineering—

Better Workmanship—

Better Materials—

and still the standard of the Industry!

We are full-line manufacturers of all requirements
for the installation of warm air heating and air-
conditioning equipment.

*Fast assemblies on the job assure fast accomplish-
ment—the fastest way to YOUR profit.*

HANDY pipe and ductwork is
obtainable through accredited
distributors. Write for the names
of distributors near you and for
Catalog No. 59A.



F. MEYER & BRO. CO.
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PEORIA, ILLINOIS

THE ONE BETTER

Humidifier that WORKS

For Your Greater PROFIT!



BON-AIR ATOMIZING HUMIDIFIER

BON-AIR sells faster because it works better! Scores of thousands of dependable installations make BON-AIR the leader in low popular priced atomizing humidifiers!

You can actually SEE the fog-like mist as BON-AIR automatically atomizes fresh water for immediate, positive humidification. Motor operated, completely assembled for quick, profitable installation. Order now from your wholesaler.

- * NO EVAPORATOR PLATES! NO JETS! NO NOZZLES!
- * NOTHING MORE TO BUY—EVER!
- * LIFETIME COPPER CONSTRUCTION!

SEE BON-AIR AT
BOOTH 766
Int. Heating & Air Cond.
Show—Chicago

ARKLON

PRODUCTS COMPANY
P. O. BOX 3501 A
CLEVELAND 18, OHIO

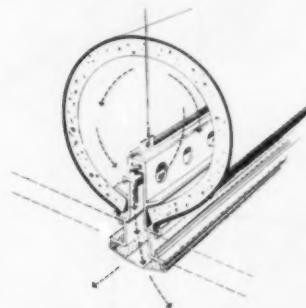
equipment developments (Continued)



Gas-Fired Duct Heater

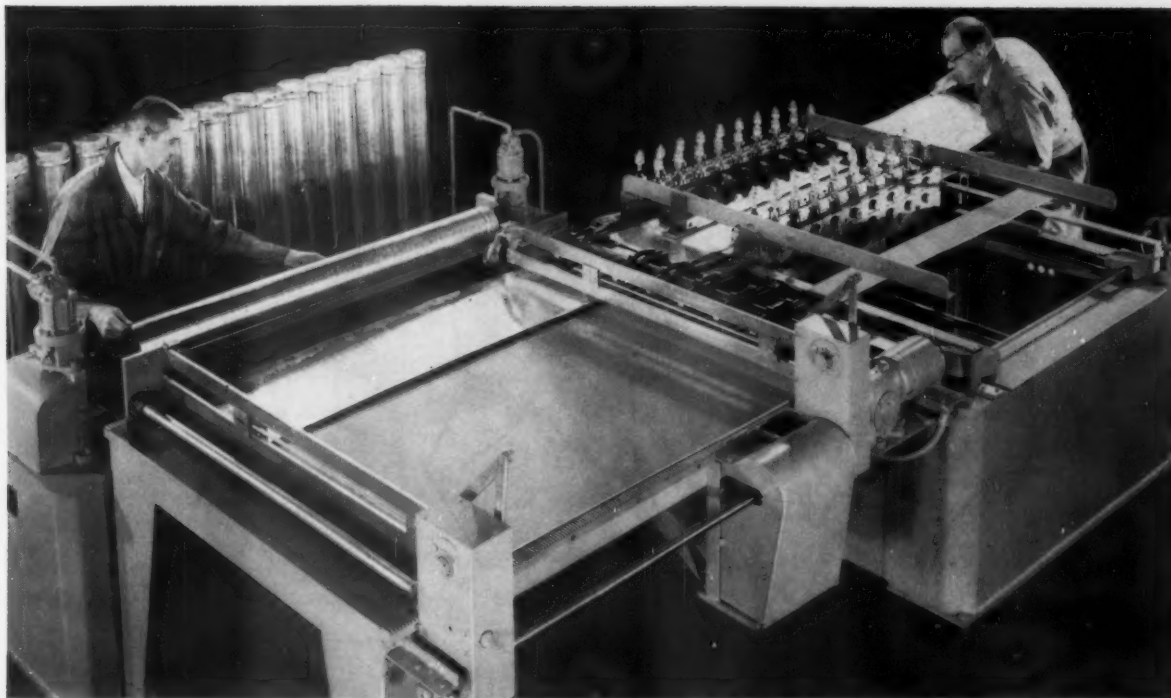
MODEL 330, designed for duct installations with central air supply, features alloy-type heat exchanger with each section fired individually. Units have low resistance to air flow in combination heating-cooling applications, according to manufacturer. Cast iron, drilled port burners are serviced from rear with no bottom access space required. Units come in eight sizes ranging from 50,000 to 250,000 Btuh. Units are so constructed that they may be joined to match heat losses requiring capacities up to 500,000 Btuh—Bryant Mfg. Co., 2020 Montcalm Ave., Indianapolis, Ind.

(Circle No. 311 on Reply Card, page 199)



Ceiling Diffusers

LOW-VELOCITY air distribution system combines air supply tube with perforated metal bar diffuser. Known as "Acoustic-Flo" the system was designed for uniform air delivery throughout area. Con-



Maplewood H-60 Special Air-Operated 5' Roller Machine, G-924 Panel-Type Snap-Lock Machine, and Automatic Intermediate Feed Table combined as a single production unit.

New Maplewood **AUTOMATIC INTERMEDIATE FEED TABLE**

Cuts Pipe and Duct Fabricating Costs!

- Automatic Transfer of Panels Produces More Pipe and Duct Sections per Hour.
- Snap-Lock and Roller Machines Operate at Maximum High Speeds.

The new Maplewood intermediate table automatically transfers panels from the snap-lock machine to the roller machine, and makes possible snap-lock forming, rolling, beading and crimping in one continuous high-speed automatic operation.

Call a Maplewood engineer for full details on adapting this automatic feed table to your operations, and ask him to propose equipment for greatly reducing your costs. No obligation of course.

See On Display Chicago International Heating & Air Conditioning Exposition, Feb. 13-16, 1961

M A P L E W O O D
RMT
ROLL FORMING MACHINES

DIVISION OF ROCKFORD MACHINE TOOL CO.
2500 KISHWAUKEE STREET ROCKFORD, ILL.

COMPLETE LINE OF ROLL FORMING AND SHEET METAL EQUIPMENT



"But I'm at
Maximum CFM Now,
Sahib!"

Why be a slave to antiquated, ineffectual equipment that delivers a lot of noise but little else? The new equipment available today to meet any ventilation problem will be on display at the Heating & Air-Conditioning Exposition. There, top executives, engineers and salesmen will provide you with helpful information and money-saving tips about the ventilation equipment in which you're interested.

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Plan your visit now!

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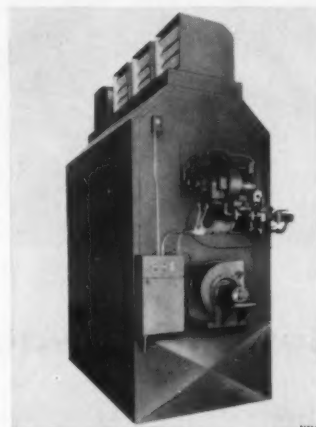
**International Amphitheatre • Chicago, Illinois
Feb. 13-16, 1961**

Management: INTERNATIONAL EXPOSITION COMPANY • 480 Lexington Ave., New York 17, N. Y.

equipment developments (Continued)

trol is provided by adjusting a continuous internal damper. The "Acousti-Flo" diffuser also functions as support for a variety of prefabricated ceilings, including the luminous type, according to manufacturer — Owens-Corning Fiberglas Corp., 717 Fifth Ave., New York 22.

(Circle No. 312 on Reply Card, page 199)



Direct-Fired Heaters

HEATERS HAVE CAPACITIES from 2,000,000 to 4,000,000 Btuh and may be fired with light oil, gas, heavy oil, or combination of the above fuels. "Unifuel" burner has high-low fire electronic flame-scanning equipment, automatic electronic controls, and forced draft air-fuel atomization process for economical operation, according to the manufacturer. Heaters are suitable for heating large open areas such as warehouses, foundries, factories; or may be adapted to duct systems for schools, churches, and public buildings—*Jackson & Church, Division of York-Shipley, Inc., P. O. Box 349, York, Pa.*

(Circle No. 313 on Reply Card, page 199)

Swedging Tool

TOOL CAN EXPAND tubing of six different sizes to facilitate joining two separate tubes of same size.

THOR QUALITY TOOLS

ARE TIME AND MONEY SAVERS
FOR THE AIR CONDITIONING AND SHEET METAL SHOP

THOR UNIVERSAL CLIP PUNCH



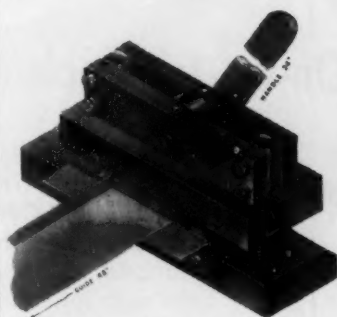
Complete Lock in one operation
saves 50% labor



Patented
Model No. 300-2
Weight 4 lbs.
Capacity, 3 sheets of
20 ga. metal

Recommended for use on air conditioning duct work, standing seams, etc. It will punch through 3 sheets of 20 ga. metal, flatten out the lug, and solidly squeeze the sheets of metal together as if riveted.

Also available: Heavy-duty clip punch, Model #300-5, for 3 sheets of 18 ga.



Model No. 200
Hand operated
Capacity, 18 ga.

THOR GOV'T. LOCK DIES shear, punch a 5/32" rivet hole, and mark point at breakline, all in one operation. Dies available for 1", 1 1/4", 1 3/8", and 1 1/2" pocket locks. Hand or foot press operated, as well as for punch presses.

Also: **THOR DRIVE CLEAT NOTCHER** — A hand-operated die for shearing and notching the ends of drive cleats. Capacity, 20 ga. Cuts 3" or smaller cleats. An exceptional feature of this tool is that long strips of metal can be passed through the die and sheared to length, thus saving an extra operation.

See your local dealer or write for our catalog and samples of metal sheared in above tools.

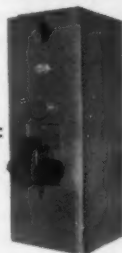
865 ESTABROOK ST.

THOR TOOL AND DIE CO.

SAN LEANDRO, CALIF.

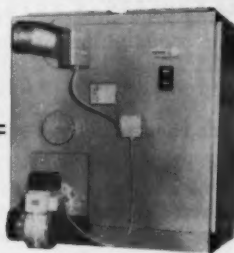
*... when you
want to sell*
**QUALITY
ECONOMY
DEPENDABILITY**
IN A HEATING SYSTEM
...then it adds up to
MIAMI!

★ HI-BOY



Heat exchanger 14 ga. steel throughout, cabinet 20 ga., insulated. Fully automatic. Beautiful blue baked finish.

★ DELUXE LO-BOY



Basement type, quiet, dependable. Insulated with spun glass, backed with aluminum foil. Large capacity, rubber mounted blower.

★ COUNTERFLO



For basementless homes. Factory assembled for burner mounting and easy installation. Burns economical No. 2 Oil.

... AND HERE ARE THE REASONS WHY!

It takes a real selling job to succeed in today's market. You must be prepared to offer the best possible performance in a furnace, with features assuring a minimum of sales resistance. The answer is the MIAMI line of quality heating units, engineered to operate for years at peak performance, and designed to harmonize with the modern trend toward clean, attractive, functional lines.

Yes, the MIAMI line adds up to complete customer satisfaction.

GROSS FURNACE MFG. CO., INC.

24 Broome St.
Salem, Virginia

★ DELUXE FLOOR FURNACE

A really compact unit. Heavy duty floor grille, cast iron inspection door, over-size radiator. All welded, 14 ga. heat exchanger. Excellent replacement unit.



★ DELUXE HORIZONTAL

Suspended, oil fired winter air conditioners. Perfect for attic installation in homes; also garages, gas stations, etc.

Valuable Books To Help You

Solve On-the-Job Problems....Improve Efficiency....Increase Profits

Listed below are collections of articles which originally appeared in *AMERICAN ARTISAN*. Covering Warm Air Heating — Air Conditioning — Sheet Metal Contracting — Ventilation and Dust Removal, these books contain the job-tested practices of experts in the field. You'll find them indispensable for study...for reference...and for daily use.

Send your selections with a check for required amount to American Artisan, 6 North Michigan Avenue, Chicago 2, Illinois.

Correct Practice in Residential Cooling-Volume I

S. W. Reid explains Air Conditioning Fundamentals in 17 articles — tells how to adapt cooling to new and existing warm air systems, and gives data on all component parts of cooling equipment required . . . the refrigeration system, duct design, condensing unit, fans, air filters, condensers, regulating valves, cooling towers and condensers.

84 pages. 8½ by 11.

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A big book of 37 "how and why" articles on residential air conditioning by S. W. Reid, one of the country's most respected experts on home cooling. It's a book that can save you (and your installation and service men) untold hours of time and hundreds of dollars in money on air conditioning installation and trouble shooting. Covers such subjects as . . . how to plan and install air conditioning systems for greatest efficiency . . . why air conditioning systems break down . . . where to look for failures in a system . . . how to fix such failures **fast**. A wealth of data for **all** engaged in comfort air conditioning.

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Correct Standards for Forced Warm Air Heating

This series of 17 articles by S. Konzo provides correct standards for evaluating the comfort performance of any forced warm air heating installation . . . also for improving efficiency of a newly installed system . . . or for correcting faulty adjustments in existing systems. It tells exactly what factors make a quality system. It gives standards for rating every phase of heating performance. It warns you of trouble spots, tips you off on what to look for (and what to do) when things go wrong.

88 pages. 8½ by 11.

Price \$1.50

Ductwork Estimating Tables-Revised

A collection of revised, field-checked figures to help you estimate costs of duct sections, fittings, and components. These up-to-date Ductwork Estimating Tables cover weights and required fabricating times of components in sizes from 44 x 12" to 4 x 7" and fittings needed for elbows, transitions, branches and boot takeoffs. Figures are based on actual stop watch data collected exclusively for *AMERICAN ARTISAN* by E. B. Root and Darwin A. Downing.

21 tables. 8½ by 11.

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Correct Practice in Industrial Sheet Metal Work

Contains all basic design and engineering data necessary for the proper planning and installation of fume removal, dust collecting, wood-waste removal, ventilating and other industrial sheet metal systems and equipment. Made up in the main of data published in *AMERICAN ARTISAN*, this book offers sheet metal contractors dozens of practical designing ideas, layouts, installation kinks, tables and charts, contributed by more than 50 of the country's leading industrial sheet metal experts.

218 pages. 8½ by 11.

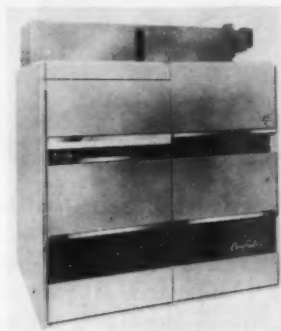
Price \$1.50

equipment developments

(Continued)

"12479" enlarges inside of tube to fit over outside of another tube the same size. Tool can expand size of 3/16, 1/4, 5/16, 3/8, 1/2, and 5/8 in. tubing—*Robinair Mfg. Corp., Montpelier, Ohio.*

(Circle No. 314 on Reply Card, page 199)



Gas and Oil Furnaces

"COMFORTROL" (8 series) and "Comforclime" (7 series) come in four sizes. Gas models are rated in 100,000, 125,000, 150,000 and 175,000 Btuh input; oil models are rated 84,000, 112,000, 140,000 and 168,000 Btuh at bonnet. Manufacturer claims room temperature control within one deg variation by specially designed damper section and an indoor-outdoor thermostat system. Outdoor thermostat signals burner and damper controls to build up extra amount of heat in furnace for availability when needed—*The Waterman-Waterbury Co., 1121 Jackson St. North East, Minneapolis 13, Minn.*

(Circle No. 315 on Reply Card, page 199)

Aluminum Ceiling

SUSPENDED ALUMINUM residential ceiling has an interlocking grid system that can be used with five different panels, plus lighting fixtures. Hidden wiring, piping or ductwork are easily accessible, according to manufacturer—*Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa.*

(Circle No. 316 on Reply Card, page 199)

Sell more "tough buyers" with Reznor

NEW AUTOMATIC VENTER

lets you install Reznor unit heaters almost anywhere!

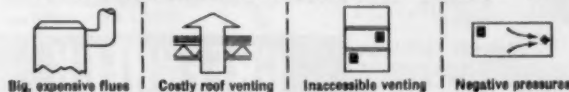
Now, with the Reznor Venter, you can install direct-fired Reznor heaters where you couldn't before—in multi-story buildings or structures with hard-to-get-at chimneys! You'll save money for your "tough buyers," and sell more unit heaters, too.

The Venter, available exclusively with Reznor Heaters, is a motorized automatic vent exhauster that mounts directly on the heater. You simply install a 4-inch diameter vent pipe to carry burned gases to a sidewall—or down through the floor and out, if you choose. No more costly roof venting or big, expensive flues. Heaters operate more efficiently, too, especially if the room has an exhaust fan which creates a negative pressure.

There's a Venter for all Reznor Heaters up to 300,000 Btuh capacity. Ask your distributor for Catalog SA-5900, with data on all Reznor Heaters and the new Venter. Or write Dept. 68-G, Reznor Manufacturing Co., Mercer, Pa.



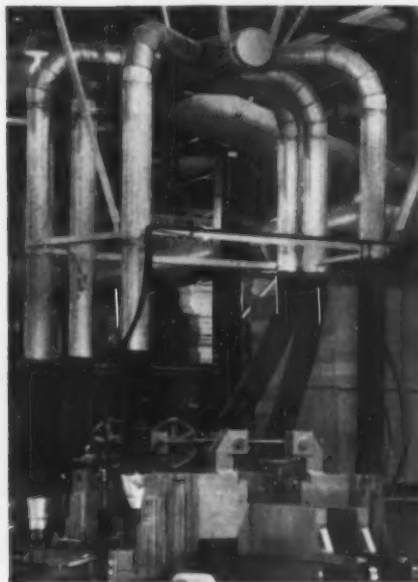
USE THE REZNOR VENTER AND AVOID THESE PROBLEMS:



REZNOR HEATERS

"WORLD'S LARGEST SELLING DIRECT-FIRED HEATERS"

YOU SAVE MORE WITH FLEXAUST® HOSE



Thousands of successful installations prove that use of Flexaust hose and Portovent retractable duct with metal duct systems lower installation costs — but there are other important advantages

Exceptional abrasion resistance
Corrosion resistance
Noise absorption
Durability under heavy flexing
Provision for expansion and contraction
Easy relocation of hoods and machines

Made of high quality neoprene coated fabrics 1 1/4 to 36" i.d.

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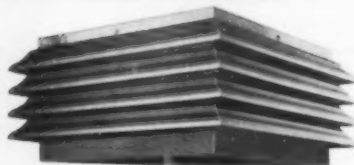
THE FLEXAUST CO.

DEPT. AA 100 PARK AVE.
NEW YORK 17, N. Y.

GREENHECK Air Movement Devices

CRAFTSMANSHIP MEANS QUALITY

Wausau Air Mover

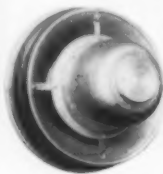


- **LOW SILHOUETTE** — designed as a roof ventilator to do the job demanded of a ventilator but at the same time have eye appeal.
- **MODERN DESIGN** — Aluminum Extrusions designed to permit low outlet velocities ... housing completely weatherproof.

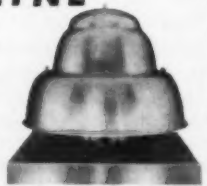
- **NO UNSIGHTLY CURB MOUNTINGS** — Point of Discharge used in design makes unsightly curb mountings unnecessary.
- **MORE RIGID WHEEL SUSPENSION** — Unique bearing arrangement places fan wheel center of gravity between the bearings provided, more rigid wheel suspension system ... bearing well also adds rigidity.
- **NO INLET OBSTRUCTIONS** — Air stream is free of all braces, cross members and other obstructions which produce turbulence and noise.
- **EASY ACCESS FOR SERVICING AND LUBRICATING** — Bearings are accessible for easy lubricating. Bearings designed for belt drive application; totally enclosed designed for long life ... motor (ball bearing motor and explosion proof also available.)

Greenheck "SPUN LINE"

"Unit Construction" — heavy wall tubing structure welded into a rigid one piece frame ... Spun Aluminum housings. Weather shielded vibration isolators. Steel curb with large inlet cone ... Conduit Pipe. High efficiency wheel design with overlapping inlet cone providing high exhausting capacities.



Sidewall centrifugal



direct drive centrifugal

Write for latest catalog, complete details and specifications.

GREENHECK
FAN & VENTILATOR CORP.
SCHOFIELD • WISCONSIN

equipment developments (Continued)

Nibbler Attachment

"NIBBLEX" metal cutting attachment fits on electric drill, drill press, or other drive that takes a 1/4 in. shaft. Device cuts flat and corrugated sheets up to 18 ga



carbon steel and 22 ga stainless steel, according to manufacturer. Straight lines, curves and angles from 1 in. radius upwards may be cut with attachment. Average cutting speed is 7 fmp; cutting action takes place on down stroke, forcing metal chips away from the operator; cutting parts (punch and die) can be sharpened and are replaceable—Hedstrom Tool Co., P. O. Box 319, Montclair, N. J.

(Circle No. 317 on Reply Card, page 199)

Rigid Rules

METAL RULES for sheet metal layout benches are "deep stamped", made of hard, anodized aluminum. Lightweight rules are 1 in. wide x 1/10 in. thick in all standard lengths. Choice of two models offers numerals from left to right, or right to left. Numbers and calibrations are stamped deep for permanence—Fairgate Rule Co., Inc., Cold Spring, N. Y.

(Circle No. 318 on Reply Card, page 199)

Electric Furnaces

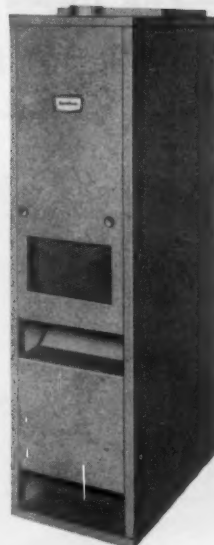
"CFBE 13" counterflow and "TABE 18" lowboy furnaces come in capacities ranging from 17,060 through 68,240 Btuh output. Pre-wired electric heat elements are factory furnished in 5-kw banks; heaters are designed to be operated by single or two-stage 24 volt

TOWER OF HOPE



The Institute for Muscle Disease
in New York City... a tower of
hope for the millions who
suffer from neuromuscular
disorders... sponsored by
MUSCULAR DYSTROPHY
ASSOCIATIONS OF AMERICA, INC.
1790 Broadway, New York 19, N. Y.

the all new BURNHAM



gas
counterflow
75-150,000

You can expect
the best...
It's BURNHAM

Since 1873
Quality Heating
and Cooling

See full line ad on pages 70, 71
BURNHAM CORPORATION
Warm Air and Cooling Division
Belle Vernon, Pa.

... finding price competition tough?

ADVANCE THE SALE OUT OF THE "LOW PRICE" CLASS

BY USING **AMERICAN ARTISAN'S** Standards For Rating Heating Systems and Standards For Rating Residential Cooling Systems

Use these proven sales tools to show the prospect how to purchase a heating system, a summer air conditioning system, or a complete year 'round residential air conditioning system and thus avoid the pitfalls of an inadequate system.

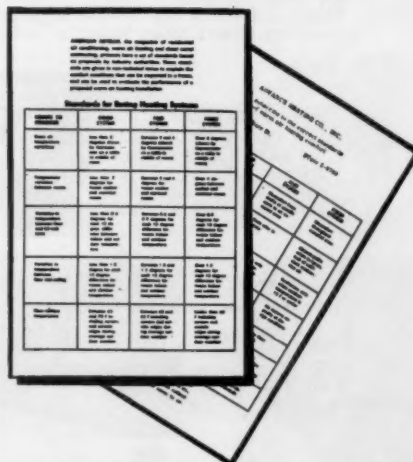
These *Standards* cards list the major points a prospect should consider when buying a heating, cooling or combination system. Words familiar to all prospects are used to explain the buying points and the classification of system performance into "GOOD," "FAIR" or "POOR" categories.

Classifications shown on the *Standards* cards are backed by data obtained from programs conducted in research laboratories and through field investigations.

STANDARDS CARDS MAY BE USED . . .

- by salesmen as sales tools
- as direct mail pieces
- as handouts at homeshow, fairs, etc.
- as showroom displays

SEND
THIS
COUPON
NOW!



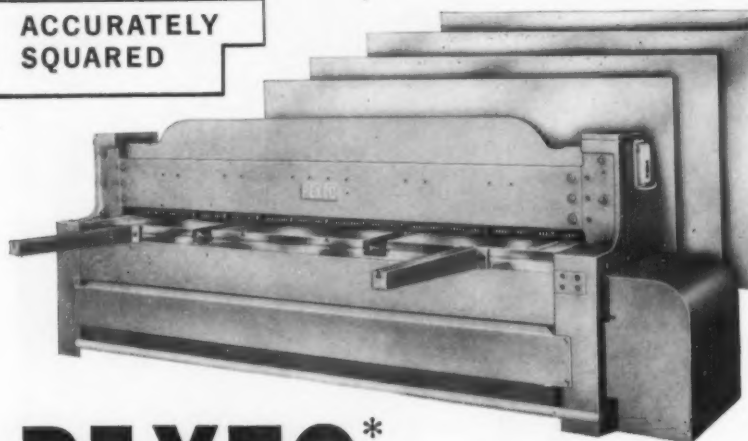
Editors, American Artisan
6 N. Michigan Ave., Chicago 2, Ill.

Send _____ Heating Standards Cards
Send _____ Cooling Standards Cards
at 2 1/4 cents each, cash with order.

NAME
ADDRESS
CITY STATE

**Continuous Full Rated Capacity
means BIGGER dollar for dollar VALUE!**

**ACCURATELY
SQUARED**



PEXTO*

*Registered Trademark

**10-U-10
A complete line**

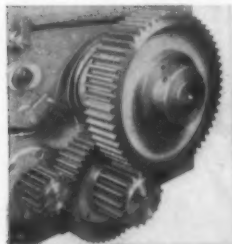
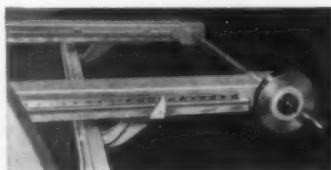
PEXTO Power Squaring Shears have design features that provide unparalleled full capacity shearing with squaring accuracy, delivering top production all day, every day... even at full-rated capacity.

These world famous Squaring Shears are built from heavy, high-grade machine tool castings, and have self-compensating hold-downs, precision gauging with maximum cutting-life from four edged blades.

These are but a few of the important features PEXTO Power Squaring Shears offer. Write for the latest literature.

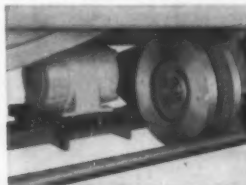
STANDARD BACK GAUGE

NEW improved design. PEXTO has added a new measure of precision, with fast, self-reading dial setting. Gauge can be locked in any position. Graduated in 128ths of an inch.



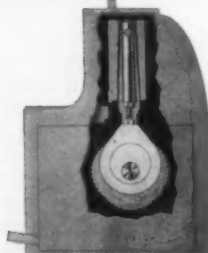
GEAR TRAIN

Double reduction gearing through modern 20° pressure angle steel pinions and cast gears provides smooth power transmission.



DRIVE

Higher flywheel speed and Timken bearings add accuracy and smoothness. Motor base can be adjusted in seconds.



CROSSHEAD SUSPENSION

A unique method of mounting means efficient use of power and effective reduction of side-thrust and wear.

Pepto Squaring Shears are sold through Dealers and Distributors... Send for Bulletins 57 and 60.

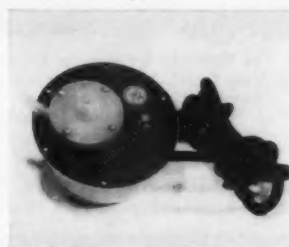
THE PECK, STOW & WILCOX CO. Southington, Conn., U.S.A.

A complete line of machines and tools for Sheet Metal Fabrication... Since 1785

**equipment
developments**
(Continued)

thermostat. Squirrel-cage blower, mounted on slide-out drawer assembly, is available with two-speed motor providing air deliveries of 900 cfm on heating and 1200 cfm for air conditioning applications. All units have die-formed, heavy metal cabinets with rounded corners, two-tone baked enamel finishes—Tuck-Aire Furnace Co., 2045 Evans Ave., San Francisco 24.

(Circle No. 319 on Reply Card, page 199)



Condensate Pump

PUMPS feature head and impeller made of corrosion-resistant plastic material. Compounded rubber shaft seal between motor and impeller extends to outer surface of pump housing. Hermetically sealed motor allows pump to operate either partially or totally submerged. Units are equipped with a 6 ft 3-connector cord, with ground safety plug attached. Models A-1 and B-1 weigh 3½ lbs, measure 4 x 5 in., are rated at 1/75 hp—Zeno Plastics Co., 17117 S. Figueroa, Gardena, Calif.

(Circle No. 320 on Reply Card, page 199)

Oil-Fired Furnaces

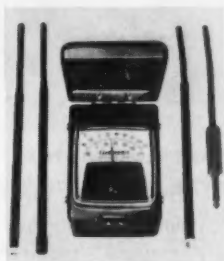
HORIZONTAL oil-fired furnaces (Models 95SO and 140SO) have front or rear reversible flue outlets designed for installation in confined space, such as crawl space or attic. Both furnaces are 23 in. wide. Model 95SO is 24 in. deep × 65½ in. long; Model 140SO is 27 in. deep × 75 in. long. Flue pipe diameters are 6 in. (95SO) and 7 in. (140SO). Heating ele-

equipment developments

(Continued)

ment is seamless gas type unit with distributing baffle designed for maximum heat extraction. Insulating medium is glass wool backed by foil surrounding unit. Centrifugal fan-type blower is rubber mounted. Four suspension couplings are included—*Bonair Division, Peerless Products Co., 23rd and Sedgley Sts., Philadelphia, Pa.*

(Circle No. 321 on Reply Card, page 199)



Electric Thermometer

INSTRUMENT OPERATES electrically without batteries or external source of power, may be used for quickly determining the super-heat setting of thermostatic expansion valves in air conditioning systems, according to manufacturer. Thermometer comes with either 2 1/4 in. or 3 in. meter, and a choice of three interchangeable probes with plug-in jack connectors. Side-contact probe (15 deg angle) and an end-contact probe are used for contact heat measurement; third probe responds to air temperature. Meter is mounted in red-anodized, drawn-aluminum case with hinged cover. Dual scales, in both Fahrenheit and Centigrade, are linear for ease of reading. Range is -50 to 250 F, and -40 to 140 C—*Airserco Mfg. Co., 435 Melwood Ave., Pittsburgh 13, Pa.*

(Circle No. 322 on Reply Card, page 199)

Roof Ventilator Bases

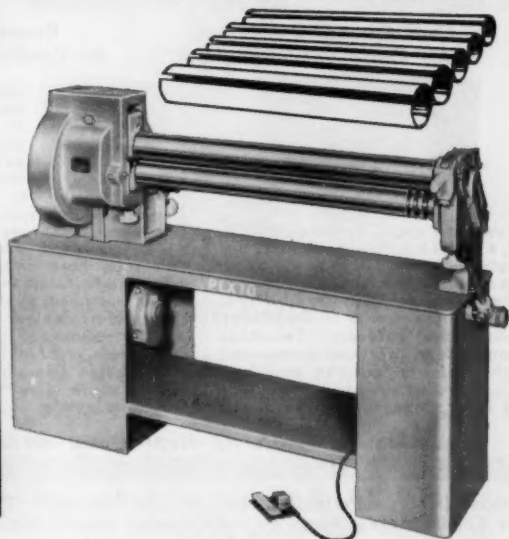
GLASS-FIBER insulated extended bases for roof ventilators are designed for use with low silhouette

PEXTO SLIP ROLL FORMING MACHINES

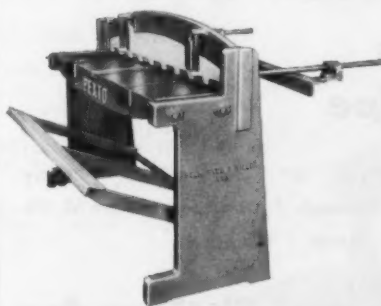
Maintain
Constant
Efficiency
with Positive
CHAIN DRIVE



Illustration shows chain drive with guard removed.

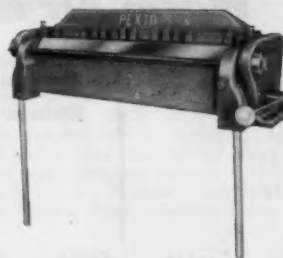


PEXTO makes a complete line of reliable machines and tools for sheet metal fabrication. The Slip Roll, illustrated above, with new chain drive provides positive power at the roll. PEXTO Power Squaring Shears, Foot Shears, Brakes, and a complete line of Hand Tools have, for more than a century, been the standard of quality.



A complete line of Foot and Power Shears, built for accurate, fast shearing. PEXTO Shears are designed to operate at continuous full-rated capacity.

Now... the Ideal Box and Pan Brake for laboratories, mock-up work and the precise duplication of small parts. It is rugged and attractively priced.



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THE PECK, STOW & WILCOX CO. Southington, Conn., U.S.A.

A complete line of machines and tools for Sheet Metal Fabrication... Since 1785

Comfort-Aire AIR CONDITIONING



Self Contained Air Conditioners

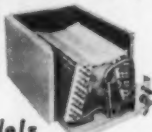


Four full capacity models of 2, 3, 4 and 5 h.p. for residential and commercial applications. Smart in appearance and design proven, they allow complete flexibility of installation. Large coil surfaces, bonderized cabinets, Tecumseh compressor, capillary system and other quality features provide a Comfort-Aire owner many years of quiet, dependable operation.

Remote Air Conditioners



Available in the same size range as self-contained models, the split systems offer a large choice of evaporator-blower units and coil sections. The compact, efficient matched compressor units feature oversized condensers, low velocity horizontal air flow and Tecumseh compressors. Comfort-Aire matched systems are easy to install, quiet in operation and weather proofed to provide years of trouble free performance.



Also Available in Heat Pump Models

Dehumidifiers - Portable Room Air Conditioners - Through-the-Wall Air Conditioners - Furnaces - Air Cooled Remote and Self Contained Air Conditioners - Air Cooled Remote and Self Contained Heat Pumps

HEAT CONTROLLER, INC.

1900 Wellworth Ave.

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La Crosse Gutters and Conductor Pipe

La Crosse Style "K" Box Gutters * "Easy Slip" Eaves Trough * Conductor Pipe & Elbows * Hangers

La Crosse Pipe and Fittings for Warm Air Heating and Cooling

The La Crosse line of pipe, elbows, duct & fittings is complete — for any and every job

GUARANTEED QUALITY
— COMPETITIVELY PRICED

La Crosse Steel Roofing & Corrugating Co.
227 Jay St., La Crosse, Wis.
P. O. Box 837

equipment developments (Continued)

hooded exhaust ventilators. Bases range in size from 15 in. to 48 in. square. Galvanized or aluminum bases are used to mount ventilators on flat, slanted or peaked surfaces—*Western Engineering & Mfg. Co., P.O. Box 66455, Los Angeles 66.*

(Circle No. 323 on Reply Card, page 199)



Makeup Air Heater

DIRECT-FIRED makeup air heater handles tempering, drying, and humidity control requirements. Model "MA" operates independently of present heating system, has full modulating air-flow mixer and built-in electrical control panel, according to manufacturer. Blower wheels have been selected to give quiet operation and smooth air movement, with no flame vortexing, as outside air is tempered by passing directly over the flame. Units come in 26 sizes ranging from 8000 to 150,000 cfm—*National Heater Co., Inc., 2475 Doswell Ave., St. Paul 8, Minn.*

(Circle No. 324 on Reply Card, page 199)

Dual Capacity Blowers

SERIES OF EIGHT blower assemblies divided into four interchangeable combinations simplify increase of cfm capacity when cooling is added to warm air residential heating systems, according to manufacturer. Blowers come in following combinations: 9 and 10 in. diameters and 10 and 12 in. diameters in both 6 and 9 in. widths—*Blower Division, The Lau Blower Co., 2027 Home Ave., Dayton 7, Ohio.*

(Circle No. 325 on Reply Card, page 199)

equipment developments

(Continued)

Humidifier

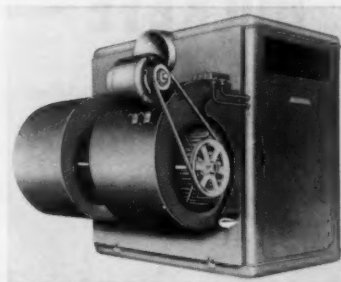
AT MAXIMUM SETTING model 50-810 evaporates 28 quarts of moisture per day, according to manufacturer. Water pan assembly is located within fur-



nace plenum or duct system and all water is evaporated in direct path of air stream by electric heating element. Counter-balanced water pan controls water level by activating micro-switch and solenoid water valve. Adjustable spring determines height of water in pan. Controls are located within separate compartment to protect them from heat and moisture. "Twin-

pan" water reservoir enables homeowners to easily clean humidifier—Mueller Climatrol, 2005 W. Oklahoma Ave., Milwaukee 1, Wis.

(Circle No. 326 on Reply Card, page 199)



Dual Blower Duct Furnace

DUAL BLOWER duct furnace are powered by single 1/2 hp motor, with blowers mounted on common drive shaft. Single motor reduces hp requirement, simplifies electrical wiring, and lowers operating and maintenance costs, according to manufacturer. Blower systems are designed for use with 250,000 Btuh and 300,000 Btuh blower-type unit heaters. DSB series are adapted for use with 250,000 and 300,000 Btuh modular duct furnaces—Reznor Mfg. Co., 6 Union St., Mercer, Pa.

(Circle No. 327 on Reply Card, page 199)

Beverly Shears MEAN BETTER WORK



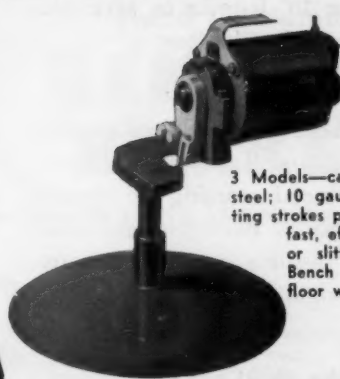
THROATLESS SHEAR

Make straight or intricate cuts in the lightest metals without distortion, yet handle heavier gauges with ease on a BEVERLY — the all-around Throatless Shear. Made in 4 models to handle 18 gauge to 3/16". Equipped with High Carbon, High Chrome Blades.



INSIDE SLOTTER

8" reach, Inside Slotter, design to make inside cutting and slotting faster and easier. Capacity up to and including 16 ga. mild. Cuts slot 2 1/2" long x 1/8" wide with one stroke. Unique arrangement of 5 H.C.H.C. blades assures fast, clean, accurate cutting.



SLITTING SHEAR

All steel welded construction, plus extra built-in strength keeps the "SS-3" Slitting Shear cutting clean indefinitely. No springing of blades, no distortion after use. Slitting capacity 3/16" mild steel; trimming capacity 5/16"; bar capacity 1/4" x 2". Equipped with High Carbon, High Chrome Blades. Made in 3 sizes.

BEVERLY ELECTRIC THROATLESS NIBBLER

3 Models—capacities to 3/16" mild steel; 10 gauge Stainless. 1725 cutting strokes per minute. Designed for fast, efficient cutting, trimming or slitting. May be used as Bench Shear (as shown) or on floor with addition of column.



See your Dealer or Write direct for illustrated catalog sheets on Beverly equipment.

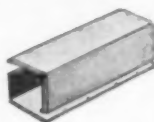
THE BEVERLY SHEAR MFG. CO.
3020 W. 111th Street Chicago 43, Illinois

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Buckeye offers a tailor-made product for a tailor-made job.

No need for a shop full of machinery when you install with Buckeye pipe and fittings.

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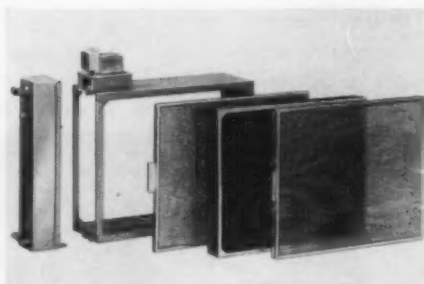
BUCKEYE MANUFACTURING, Inc.

897 Ingleside Ave.

Columbus 15, Ohio

equipment developments

(Continued)



Electronic Air Cleaner

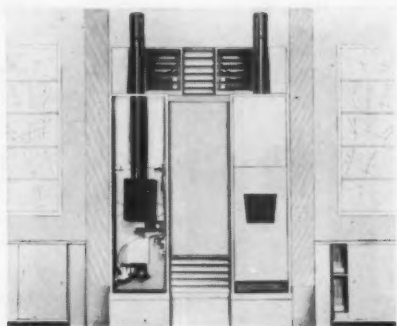
TWO-STAGE ELECTRONIC air cleaner has pre-filter to trap larger particles that could cause popping effect (due to disintegration) if they came in contact with collector plates. Airborne dust, dirt and other particles get a positive electrical charge as they pass through ionizing section of air cleaner. When positively-charged particles reach the second, or collecting stage, they pass between alternately positive- and negative-charged collector plates. The particles are repelled from the positive collector plates and collected onto the negative plates. Air cleaner features compactness, flexibility, has efficiencies ranging up to 90 percent, according to manufacturer. Unit may be installed with any type of forced air central heating or cooling system. Air cleaner measures 8 in. wide x 22 in. high x 31 in. long. Unit is installed in return air plenum immediately ahead of fan compartment. Electrician works only with 120 volt wiring; no plumbing is necessary for filter cleaning operation. Cleaner may be mounted in any position. Air flow may be changed from left to right-hand by reversing the cells inside housing. One of the sales features is a living area control center, a 5 x 7 in. panel which may be mounted anywhere in living area. It informs homeowner when the air-cleaning cell should be removed and cleaned, indicates if unit is not operating properly, shows whether pre-filter is clogged, makes it possible to control heating-cooling-ventilating blower from living area. Flexibility of equipment enables it to handle jobs requiring a capacity up to 2200 cfm. Air cleaner is delivered as a package ready to install, and installer need only provide clearance on narrow side of cleaner (for opening the door and removing the cell for cleaning). The 8 in. door holds the power pack and timer. Safety switches automatically turn off all power when door is opened. Current output from the power pack is less than 5 milliamperes, eliminating danger to installer or homeowner. Power consumption is only 40 watts. Included in package are an air cleaning cell assembly, pre-filter, an air-flow detector, and a specially designed washing kit. Kit has washing rack and tank, a squeeze bottle, a year's supply

equipment developments

(Continued)

of detergent, a hose and nozzle. Washing process involves removing electronic cell, placing it in the rack, spraying detergent on both sides and rinsing with hot water—*Minneapolis-Honeywell Regulator Co., 2747 Fourth Ave., S., Minneapolis 8, Minn.*

(Circle No. 328 on Reply Card, page 199)

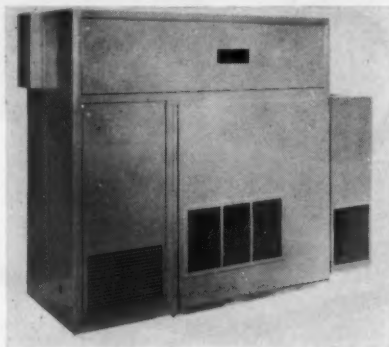


Counterflow School Furnace

"INN-A WALL" counterflow furnace designed primarily for classroom use has automatically controlled dampers for mixing outdoor and indoor air to sup-

ply the proper amount of ventilation. Air distribution system is through "Util-i-Duct" bookshelf sections installed around outside perimeter of classroom under windows. Gas-fired furnace comes in 80,000 and 100,000 Btuh models—*Norman Products Co., 1150 Chesapeake Ave., Columbus 12, Ohio.*

(Circle No. 329 on Reply Card, page 199)



Gas Heating-Cooling Unit

"SUN VALLEY" (Model 500C) is a gas-fired absorption-type chilled-hot water central heating-cooling system. Unit is rated at 42,000 Btuh cooling and 96,000 Btuh heating, and is suited as a complete remote installation, according to manufacturer. Chilled or hot water, depending on season, is circulated to a



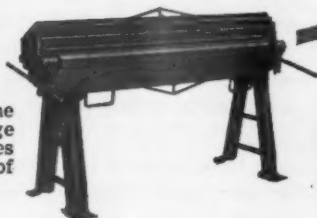
STANDARD BRAKES

Capacities up to 12-gauge sheet metal and bending lengths up to 12 feet.



FOLDER BRAKES

The simplicity and ease of operation make this a desirable machine for light sheet metal work. Seams and locks can be made efficiently. Capacity up to 20-gauge in three sizes of bending lengths of 36, 42, and 48 inches. Foot treadle clamp.



PORTABLE BRAKES

Set up shop right on the job. Capacity 20-gauge sheet metal in two sizes with bending lengths of 49 and 61 inches.

6095

Hand Operated

BENDING BRAKES

One Man Operation • Quick Adjustment • Rugged Construction



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**FOR MAXIMUM HEATING
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AT LOWEST COST**

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Quickdraft

**POWER-DRAFT UNITS
DESIGNED FOR RESIDENTIAL,
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APPLICATIONS**

★ No motors, fans or bearings in exhaust line
★ Needs no stacks ★ Acid-resisting vitreous
enamel finishes ★ Extremely high static pres-
sures now available

FOR HEATING PLANTS AND INCINERATORS . . . Quickdraft provides constant draft for efficient and economical combustion. It eliminates pulsating or chattering, puffing, smoking and sooting. Costly, tall, unsightly stacks are unnecessary.

FOR INDUSTRY . . . Quickdraft now offers extremely high static pressures for EXHAUSTING corrosive gases, abrasives and paint sprays . . . for CONVEYING all types of bulk materials or wastes that can be moved by air.

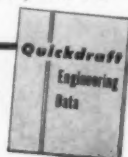
FOR MOVING AIR in or out of buildings through ducts . . . Quickdraft is outstanding in performance and efficiency.

Patents 2,722,372
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IMPORTANT NOTICE

To withstand corrosive gases, all Quickdraft units are available in standard acid-resisting vitreous enamel, No. 316 Stainless Steel, rigid plastics (P. V. C.) and with plastic and Fiberglass coatings.



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equipment developments

(Continued)

fan-coil assembly in closet, attic, crawl space or other inside location. Individual room control, baseboard radiation, ceiling or floor radiation are possible with unit. Companion fan-coil assembly (Model FCF-42-96) allows for flexibility of coil and duct arrangement, it is said—*Arkla Air Conditioning Corp.*, 812 Main St., Little Rock, Ark.

(Circle No. 330 on Reply Card, page 199)



Highboy Furnace

"AIR-EASE" (HTS 60) gas-fired highboy furnace is rated at 60,000 Btuh, and is available with belt drive or direct drive blower, with choice of controls. Standard belt drive blower has capacity for addition of two tons of cooling. Furnace has zero clearance sides and back when installed with type B flue, and is serviceable from front. Unit is 14 in. wide × 23½ in. deep × 60 in. high—*Johnson Furnace Co.*, 2129 W. 117th St., Cleveland 11, Ohio.

(Circle No. 331 on Reply Card, page 199)

Thermostats

"KLIXON 20450" thermostat with internal line voltage heater is designed to anticipate and supplement response to ambient temperature. Unit has five terminations, two of which are for heater leads. Heater is built into pin guide and is in close proximity to disc, giving rapid transfer of heat from heater to disc. Weight is approximately one ounce; maximum ambient temperature is 200 F. "Klixon" hermetic protectors, sensitive to both current and temperature, can be internally mounted inside compressor shell, adjacent to windings, so as to follow winding temperature closely and protect motor. Sizes and capacities are available to cover range of compressor ratings from ½ to 5 hp, single phase, and 2 to 7½ hp, three phase. "Klixon 7895" motor winding thermostat, a temperature responsive device, is small

equipment developments

(Continued)

enough to be embedded in motor windings. Thermostat follows winding temperatures under running conditions of overload to give running and locked rotor protection—Texas Instruments Inc., 34 Forest St., Attleboro, Mass.

(Circle No. 332 on Reply Card, page 199)

Air Filter

"V-7 ROLL-KLEEN" air filter operates on same principle as film roll in a box camera. Filtering media—which comes in a roll—unwinds from the top, passing downward across face of metal grille. As media is used, it is rewound on a bottom spool. Used filter rolls are disposable. When pressure drop reaches pre-set limit, pressure switch actuates mechanism that advances the media. Series of four models offer choice of automatic or manual drive. V-7 media roll has glass filter material 65 ft long; has efficiency above 81 percent according to manufacturer. Designed to operate in a velocity range of 350 to 500 fpm. Individual filter sections may be bolted together in multiples to meet requirements. Models are available in vertical sections in 3, 4 or 5 ft widths—Farr Co., P. O. Box 90187, Airport Station, Los Angeles 45, Calif.

(Circle No. 333 on Reply Card, page 199)

Heat Pump

"CLIMATROL" 2 hp self-contained heat pump (Model 315-21) has numerous parts and components interchangeable with those of other units in the manufacturer's line. Supplementary electric resistance

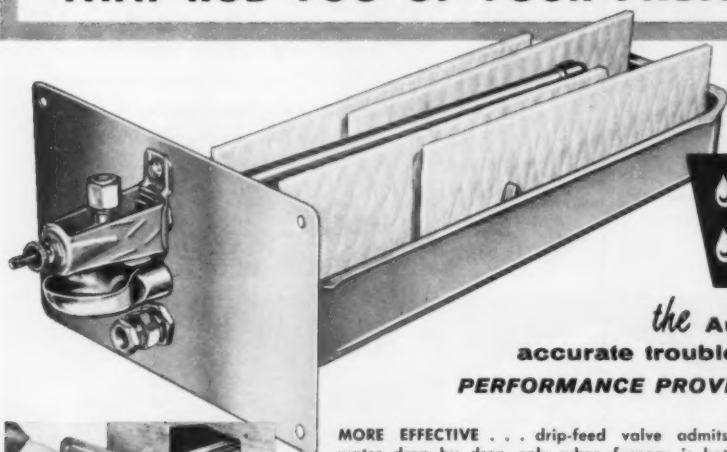


heating packages come in 8 or 12 kw capacities. Shipped assembled, the heat pump measures 36 in. long, 31 in. wide, and 20 5/16 in. high. Unit develops 21,000 heating and 22,000 Btuh cooling—Mueller Climatrol, 2005 W. Oklahoma Ave., Box 401, Milwaukee 1, Wisc.

(Circle No. 334 on Reply Card, page 199)

**AVOID THOSE COSTLY CALLBACKS
THAT ROB YOU OF YOUR PROFIT**

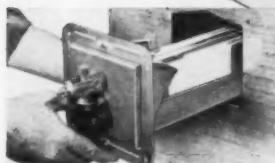
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SERIES 555C
For straight side warm
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the Automatic Humidifier with the
accurate trouble-free thermostat control . . .
PERFORMANCE PROVED FOR MORE THAN 35 YEARS



Installs in minutes. Just cut
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mounting plate . . . connect
water. **NO PAN LEVELING
NECESSARY.**

MORE EFFECTIVE . . . drip-feed valve admits
water drop by drop only when furnace is hot
enough to quickly evaporate it. Drip rate in-
creases as furnace becomes hotter. No pools of
water left in pan to become stagnant. No float
valves to corrode or stick.

FASTER VAPORIZATION . . . Thermo-Tex Evapo-
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rating surface of pan itself.

REPEAT PROFITS . . . you sell replacement evapo-
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LASTS FAR LONGER . . . Stainless steel vapor
pan resists chemical action of water . . . easily
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FULLY ADJUSTABLE . . . Rate of drip-feed easily
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Models also for Slant-side and Counterflow furnaces

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In the New York market

**where *price* is an
important factor**

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codes exist . . .**



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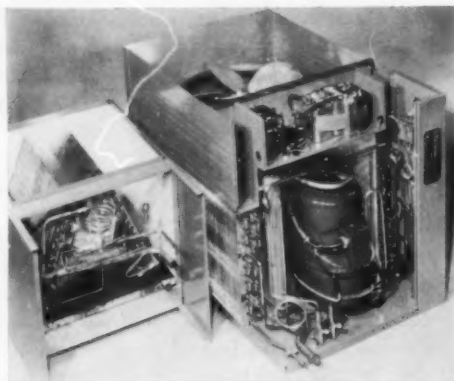
EMPIRE

VENTILATION EQUIPMENT COMPANY

35-39 Vernon Boulevard

Long Island City 6, N.Y.

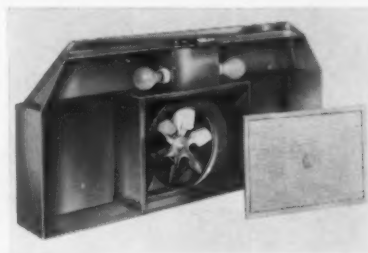
equipment developments (Continued)



Remote Air Conditioner

TWO AND THREE-TON air-cooled units have compressors with external spring mounts and crankcase heater, high and low pressure controls, service valves, pre-fabricated wiring harness, receiver and aluminum fan blades. Counterflow evaporator coil is for furnace or vertical duct installation. Coils are also available for horizontal duct or counterflow installation along with separate blower sections. Condensing units are covered with rust and corrosion resistant zinc, finished with baked-on enamel. Condenser coil is separated into two sections (one at each side), giving more coil area for higher efficiency and lower operating costs, according to manufacturer. Vibration spring mounts are located under compressor cooling coil. Units feature "cooling maze" fin design to increase air contact with coil surfaces for faster cooling. Condensing unit models CA 24 and CA 36 are rated at 24,000 and 36,000 Btuh respectively. Model CA 24 uses a 1/4 hp condenser fan motor with an air delivery of 1800 cfm. Model CA 36 uses a 1/3 hp motor and has a capacity of 2800 cfm. Refrigerant 22 is used in both models—York Corp., Subsidiary of Borg-Warner Corp., York, Pa.

(Circle No. 335 on Reply Card, page 199)



Range Hood

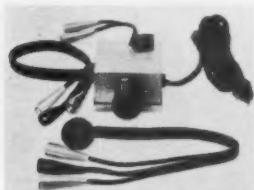
SERIES 5200 range hood has two-speed fan developing enough power to overcome static resistance of long exhaust ducts. Unit can be vented from either

equipment developments

(Continued)

the back or top, with knockouts provided in both locations. Corners on range hood are tapered to let adjoining cabinet doors swing wide open; control panel is centered in front and has two push-buttons, one controlling fan motor, other turning two-bulb light off and on. The 5200 series comes in four sizes (24, 30, 36 and 42 in. wide) with choice of three color finishes—*Leigh Building Products, Division of Air Control Products, Inc., Coopersville, Mich.*

(Circle No. 336 on Reply Card, page 199)

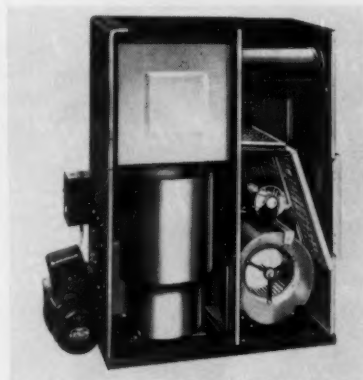


Test Cords

TEST CORDS for cooling equipment are used in general continuity checking, diagnosing open, start and run windings, defective capacitors and relays; and

permit serviceman to start compressor independent of capacitor and relay on the system. Model 12263 is designed for work on 220-volt circuits found on window air conditioners—*Robinair Mfg. Corp., Montpelier, Ohio.*

(Circle No. 337 on Reply Card, page 199)

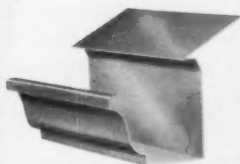


Oil-Fired Furnaces

FOUR "MONCRIEF" oil-fired furnaces feature high air deliveries with standard blowers, permitting addition of summer air conditioning cooling coils, according to manufacturer. Three furnace sizes—84,000, 95,-

SPECIFY OBDYKE FOR PERMANENT HOME-OWNER SATISFACTION

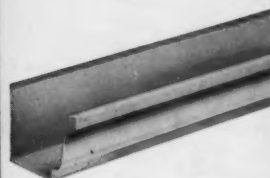
for the finest . . . specify OBDYKE
"EAVE-DIKE" K GUTTER



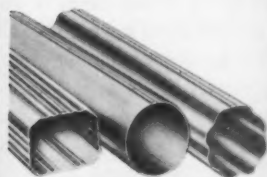
for the finest . . . specify OBDYKE
STYLE "D" EAVES DRIP



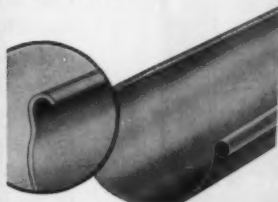
for the finest . . . specify OBDYKE
STYLE "K" GUTTER



for the finest . . . specify OBDYKE
CONDUCTOR PIPE



for the finest . . . specify OBDYKE
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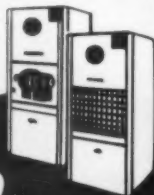
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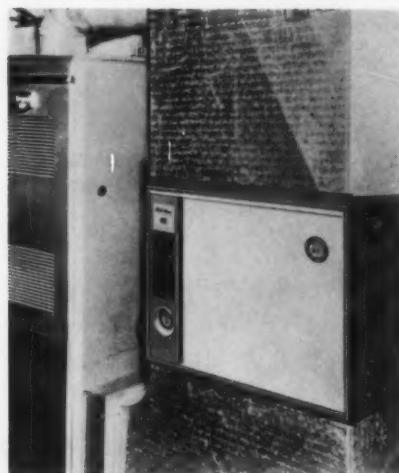
KALAMAZOO
FURNACE AND APPLIANCE MFG. CO.
615 2nd Avenue, Kalamazoo, Michigan

equipment developments

(Continued)

000, and 112,000 Btuh at the bonnet—are offered with a choice of cabinet styles, one having the burner exposed and the other with vestibule concealing burner. A 140,000 Btuh output model is offered with vestibule cabinet only. Heavy gage heat exchangers with round combustion chamber lined with heavy-duty refractory firebox implement quiet performance, is it said—Henry Furnace Co., Medina, Ohio.

(Circle No. 338 on Reply Card, page 199)



Electronic Air Filter

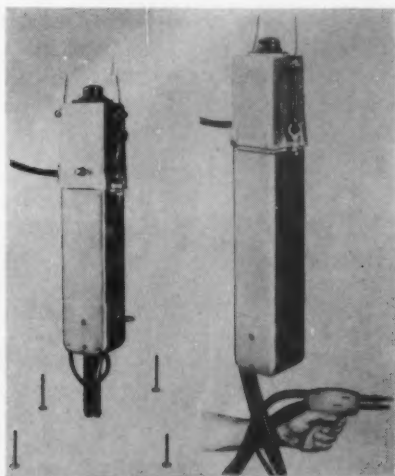
"ELECTRO-KLEAN" electronic air filter features console exterior with white plastic front panel rimmed with ledge of gold metal. Refinements in printed circuit in filter cells raises efficiency of filter to 90 percent for particles down to one-thousandth in., according to manufacturer. Unit is installed in return air duct of any forced air furnace or central air conditioner. Cfm capacities range from 1000 to 2660—American Air Filter Co., Inc., 355 Central Ave., Louisville, Ky.

(Circle No. 339 on Reply Card, page 199)

Condensing Unit

"RHEEMAIRE" RA-110 condensing unit of 110,000 Btuh capacity has single dual-circuited condenser and condenser blower, with twin hermetic compressors. Unit is designed for use of small commercial installation where air conditioning of two areas is desirable or for installations subject to wide variations in heat gain. Time-delay relay prevents both compressor motors from starting at exactly the same instant. Suction lines are 7/8 in. diameter. Each compressor draws 23 amperes under design conditions—Rheem Manufacturing Co., 400 Park Ave., New York 22.

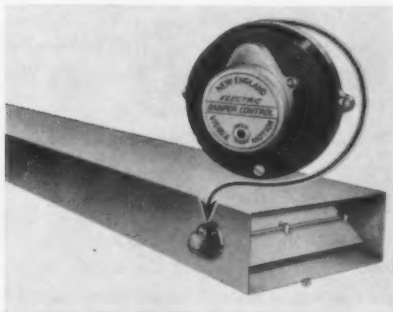
(Circle No. 340 on Reply Card, page 199)



Insulation Pin Spotter

"PINSPOTTERS" for welding insulation pins to duct-work are available in two models. Model PS-100 weighs 24 lbs and works on 110 volts, can be carried to the job site or suspended over a work bench in the shop. Pins come in standard lengths from $\frac{3}{4}$ in. to $2\frac{1}{2}$ in. Pin is spotted by inserting it in electrode tip, depressing unit against work, and pressing switch. Automatic timing gives uniform welds, according to the manufacturer. Model PS-200, a 220 volt unit, has additional remote gun connected to 30 lb power source by dual 5 ft cables. After pins have been welded, insulation is pressed over pins to ducts. One inch square clips are then slipped over serrated pins to secure insulation to duct—Duro-Dyne Corp., Route 110, Farmingdale, N. Y.

(Circle No. 341 on Reply Card, page 199)



Duct Damper Controls

DIRECT DRIVE, 24 volt electric damper controls utilizing machine cut steel gearing, aircraft type switches with 360 deg damper vane adjustability are designed for use with individual room thermostatic control. Damper controls provide automatic compensation for solar loads, wind shifts, fire-places and when occu-

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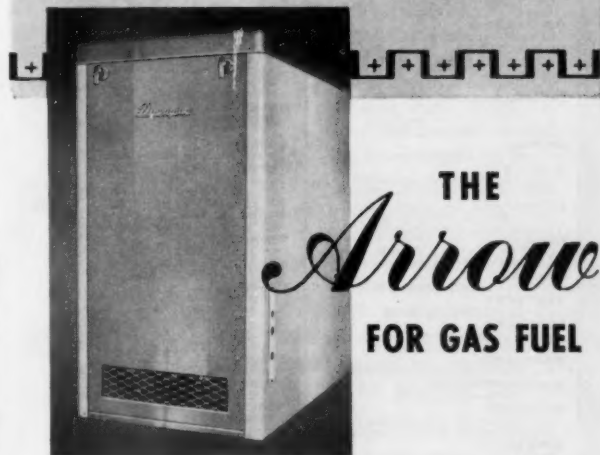


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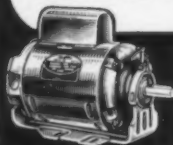
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W.W. GRAINGER, INC.

Dept. 102-F, GENERAL OFFICES, CHICAGO 12

equipment developments

(Continued)

pany is above average. Steel gearing enables units to operate any size duct up to 36 in. width, according to manufacturer. Built-in auxiliary switch controls burner circuit—New England Gear Works, Inc., South End Rd., Southington, Conn.

(Circle No. 342 on Reply Card, page 199)



Lowboy Furnace

TWO SERIES of Lowboy gas-fired winter air conditioning furnaces. BGL series has rear flue outlets and sectional type heat exchangers ranging in size from 90,000 to 210,000 Btuh, in increments of 30,000 Btuh. BGLF series has front flue outlet and ranges from 100,000 to 150,000 Btuh in increments of 25,000 Btuh. All models have heavy gage steel pan bottoms, eliminating grouting around the bottom, according to manufacturer. Cabinet walls surrounding heat exchanger are covered with aluminum foil-faced fiberglass insulation. Motor and blower are rubber mounted, and latter is sized to handle the addition of summer cooling equipment—Burnham Corp., Warm Air & Cooling Div., P.O. Box 148, Belle Vernon, Pa.

(Circle No. 343 on Reply Card, page 199)

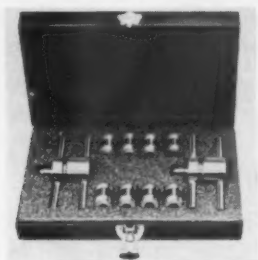
Heat Pumps

AIR-TO-AIR heat pump is one in line of "Auto-Temp" heat pumps, and is designed for remote condensing unit installation. Water-to-air closet model that meters refrigerant to chiller-condenser on heating cycle comes in 3, 4, and 5-hp sizes. The WAR series of water-to-air heat pumps come in same sizes, provide capacities from 3¾ to 6 tons. Eight and 10-ton heat pumps feature chiller-condensers with jet for efficient metering of refrigerant, according to manufacturer—Tempromatic Corp., DeLand, Fla.

(Circle No. 344 on Reply Card, page 199)

equipment developments

(Continued)



Tube Fittings Kit

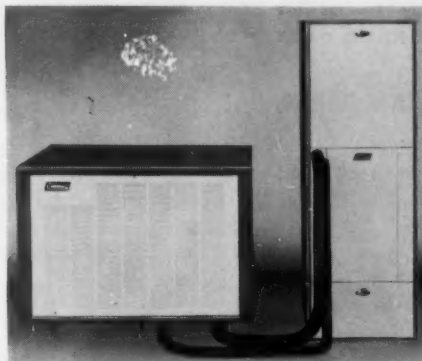
PROCESS TUBE fittings tool for cooling equipment is used for connecting charging lines when evacuating, dehydrating and recharging cooling systems with process tube accesses. Tool is designed to give seal from tubing to charging hose, eliminating necessity of flaring tubing. Model 12458 has kit of two master fittings and hardware adapters for use on 3/16 in., 1/4 in., 5/16 in., and 3/8 in. tubing—*Robinair Mfg. Corp., Montpelier, Ohio.*

(Circle No. 345 on Reply Card, page 199)

Heat Pump

AIR-TO-AIR hermetic heat pump consisting of a remote unit and compact indoor unit for use with

forced systems, has cooling capacity of 35,000 Btuh and heating capacity of 38,000 Btuh under ARI test conditions. Large coil, combined with low temperature loop, and special expansion valve maintain high-level operating efficiency when outside temperatures are in zero to 25 F range, according to manufacturer. Indoor unit includes dual-purpose heating and



cooling coil, filter and built-in 5 kw resistance heater. Provisions for installation of one or two additional 5 kw heater elements has been provided, if required. Inside unit is adaptable for counterflow, downflow or horizontal installation. Both indoor and outdoor units are equipped with driers—*Coleman Co., Inc., St. Francis & Second St., Wichita 1, Kans.*

(Circle No. 346 on Reply Card, page 199)

DIECKMANN ONE PIECE CONDUCTOR ELBOWS AND SHOES

SQUARE CORRUGATED ELBOWS AND SHOES, STYLE "A" (ORDINARY CURVE)



SQUARE CORRUGATED ELBOWS AND SHOES, STYLE "B" (SIDE CURVE)



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new literature . . .

To obtain copies of the new literature described here, circle the code number on the readers' service card opposite page 198, fill in your name and address and drop in the mail.

Gas Air Conditioning

"GO TO SUN VALLEY" is the theme of an illustrated brochure which outlines features, advantages, specifications and capacities of residential year 'round gas air conditioning units. A second folder, covering air conditioning units for commercial applications, is built around the theme "Everyone Is Happier." Space is provided for dealer imprint—*Arkla Air Conditioning Corp.*, 812 Main St., Little Rock, Ark.

(Circle No. 401 on Reply Card, page 199)

Plastic Welding Guns

BULLETIN No. 60-1 contains information on welders for thermoplastics. Equipment described includes a hand welder and tacker, all-purpose welders, job welders, special tips and tools. Welders are designed

to weld, seal, tack and repair thermoplastics such as polyethylene, polypropylene, rigid and plasticized PVC, and plasticized tank linings. Bulletin No. 60-2 contains operating and maintenance instructions—*Kamlar Products Co.*, 932R Washington St., Norwood, Mass.

(Circle No. 402 on Reply Card, page 199)

Cooling Tower Pumps

SIX STEPS IN THE SELECTION of cooling tower pumps and piping are detailed in the manual "Sizing Cooling Tower Pumps and Piping." The six steps are: 1) Determine amount of water in gallons per minute to be circulated to the tower; 2) Make a layout showing the complete piping system; 3) Determine the static head and pressure drop through units other than pipe and fittings; 4) Select the pump; 5) Size the pipe; and 6) Check pump and pipe sizes. Each step is fully explained. Charts, tables and diagrams are included to clarify text—*Bell & Gossett Co.*, Morton Grove, Ill.

(Circle No. 403 on Reply Card, page 199)

Roof Ventilators

POWER ROOF VENTILATORS in two basic designs—straight-through and dome types—are described in



**Caldwell Hammers Seal Pittsburgh Lock
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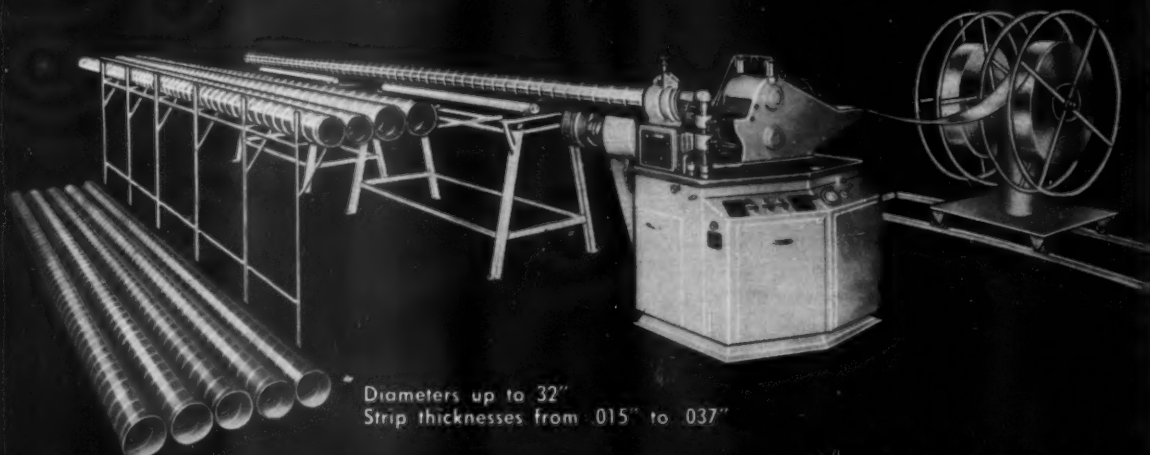


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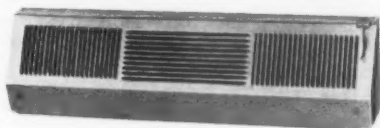
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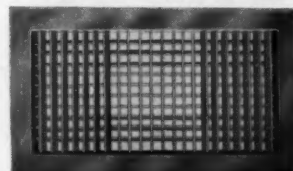
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6 North Michigan Avenue, Chicago 2, Illinois

new literature

(Continued)

bulletin PRV-60. Features include low silhouettes, aerodynamic fan blades, hinged discharge and nylon damper-hinge bearings. Bulletin lists sizes, dimensions and performance data—*L. J. Wing Mfg. Co., Inc., 2300 N. Stiles St., Linden, N.J.*

(Circle No. 404 on Reply Card, page 199)

Plastic Tanks

MOLDED PLASTIC TANKS in six standard sizes and shapes are described and illustrated in a two-page data sheet punched for catalog insertion. Also available is a four-page circular describing the "Thermofusion" production process for making large plastic products such as tanks, bins, drums, milk cans, etc.—*American Agile Corp., P. O. Box 168, Bedford, O.*

(Circle No. 405 on Reply Card, page 199)

Air Conditioning Units

BROCHURE DESCRIBES "TWO-IN-ONE" residential air conditioners featuring two separate air conditioning circuits. One system operates on warm or hot days; on extremely hot days, the second system comes on

automatically to give required additional cooling and dehumidification. Drawings show typical applications. A cutaway product photo illustrates construction features. Also being offered is a brochure covering "Pathfinder" air conditioning units for homes, small stores and offices. Features include weather resistant coating, quiet operation, and easy installation—*York Div. of Borg-Warner Corp., York, Pa.*

(Circle No. 406 on Reply Card, page 199)

Press Brake Dies

OVER 360 DRAWINGS of standard and special press brake dies are contained in Catalog No. PBD-60A (28 pages). In addition to listing standard and special, single and multiple bend forming, blanking, notching and punching dies, the catalog contains tonnage requirement tables for both punching and bending various thicknesses of mild sheet steel—*Valeron Corp., Press Brake Div., 56 Factory Rd., Addison, Ill.*

(Circle No. 407 on Reply Card, page 199)

Dual Duct Air Mixing Units

TEMPLATE FOR DUAL DUCT air conditioning layouts is made of a flexible, translucent plastic material, has

Hottest "Spot" in the Shop

the NEW  **LECTRO SPOT**



Simply depress lever and tongs grip metal at pre-determined pressure, switch is turned on and weld sequence timer is actuated for precise period set on control dial. Thus, every weld is identical until timer adjustment is changed. Pilot light indicates when welder is connected.

This advanced design plus light weight and wide selection

of tongs make the new Miller Lectro Spot the finest welder of its type.

Available in three styles: 115v or 230v, 1.5 KVA models for work to 1/8" thickness, both weigh 29 lbs.; 230v, 2.5 KVA model for mild steel to 5/32", weighs 37 lbs.

Complete specifications with tong and tip availabilities will be sent promptly upon request.

miller

ELECTRIC MANUFACTURING COMPANY, INC. • Appleton, Wisconsin

Distributed in Canada by Canadian Liquid Air Co., Ltd., Montreal

new literature

(Continued)

both $\frac{1}{4}$ and $\frac{1}{8}$ in. scales. Openings in both scales are provided for all available air mixing units, from 60 to 4000 cfm—*Buensod-Stacey Corp.*, 45 W. 18th St., New York 11.

(Circle No. 408 on Reply Card, page 199)

Fire Vents

TECHNICAL REPORT (bulletin FY-R59) was prepared to show how fire vents reduce fire destruction to property. "Pyroport," "Smokehatch" and "Smokeport" vents, designed to provide adequate ventilation if a fire occurs, are illustrated and described. Included is a fire hazard rating chart to simplify determination of proper number of vents required for a given area. Factors such as proper sizing and spacing of units in relation to plant construction are also reported—*Penn Ventilator Co., Inc.*, 3254 Goodman St., Philadelphia 40.

(Circle No. 409 on Reply Card, page 199)

Room Thermostats

INFORMATION on "D'Luxline" and "PushButton" room thermostats is presented in a four page folder designated Unit R-1691. Features include sealed mercury contacts, heat anticipation, and bimetal temperature sensing element. Models described include both heating and cooling applications with separate push button for continuous blower operation. One page lists complete specifications for all thermostat types available—*White-Rodgers Co.*, 1209 Cass Ave., St. Louis 6.

(Circle No. 410 on Reply Card, page 199)

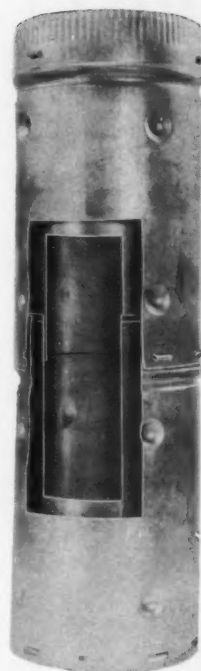
Gas vs Electric Heating

ADVANTAGES OF GAS HEATING are described in a 16-page brochure titled "Comfort in Whole House Heating." Designed for use as a consumer piece, the booklet is printed in four colors, is written in non-technical language. Also included are two chapters which provide information on six basic types of electric heating equipment. A fuel cost chart is included to help determine comparative costs of gas and electric heat for various geographical locations. Single copies are priced at \$1.50 each—*Southern Gas Association*, 1524 Life Bldg., Dallas 2.

(Circle No. 411 on Reply Card, page 199)

Air-Powered, Electric Tools

PORTABLE AIR-POWERED and electric tools are described in catalog #61 (72 pages). Products and services are divided into seven categories. The first



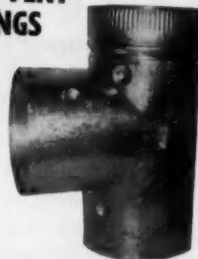
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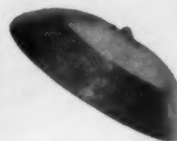
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new literature

(Continued)

section presents general information on the firm and its facilities. Subsequent sections cover drilling, fastening, abrasive and special tools as well as electric tools and accessories—*Buckeye Tools Corp.*, 5003 Springboro Pike, Dayton 1.

(Circle No. 412 on Reply Card, page 199)

Newspaper Publicity

CLIP SHEET contains brief articles suitable for release to editors of newspaper building pages. Typical titles are: "Plan Ahead for Proper Heating," "Don't Underestimate the Value of a Good Heating System," "New Heating Systems Are Compact and Efficient," and "Check Your Heating Equipment Now"—*Air Distribution Institute*, 22 W. Monroe St., Chicago 3, Illinois.

(Circle No. 413 on Reply Card, page 199)

Gutter Clamp

DATA SHEET describes Style "K" O.G. gutter clamp designed to draw the joint tightly together, making soldering faster and easier. Clamp features vise grip wrench with easy release. According to the company,

double lever action enables the grip of one hand to lock and adjust jaws with more than ton pressure. Available in 4 in. model 4MG and 5 in. model 5MG. Each model is made of a special alloy steel for long life—*Girard Steel Supply Co.*, 889 Vandalia, St. Paul 14, Minn.

(Circle No. 414 on Reply Card, page 199)

Centrifugal Fans, Roof Ventilators

INFORMATION on small direct-connected, belted and portable centrifugal fans is presented in bulletin DB2-306. Also available is bulletin DB3-300 covering "Up-Blast" vertical exhaust roof ventilator Type UB for commercial and industrial applications—*Hg Electric Ventilating Co.*, 2850 N. Pulaski Rd., Chicago 41, Ill.

(Circle No. 415 on Reply Card, page 199)

Gas Incinerators

LITERATURE describes and illustrates AGA approved "Duramatic" gas incinerators. A cutaway view shows features including automatic burner timer, triple insulation at bottom, firebrick lining and hidden flue. Specifications are included—*E. L. Mustee and Sons, Inc.*, 6911 Lorain Ave., Cleveland 2.

(Circle No. 416 on Reply Card, page 199)

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► YORK DIV., BORG-WARNER CORP., held its 1961 distributor convention in Hollywood, Fla. Features incorporated in the new models of the company's products were described, and it was explained how these features could be used to increase sales at the local level through a detailed merchandising program slanted to reach the home builder, architect, consulting engineer, general contractor and the public.

A complete merchandising kit in a leather attache case was issued to each person attending the convention. How to use the contents was explained through the use of a sample case in which it was pointed out how and when to promote summer air conditioning.

Also discussed at the meeting was a leasing plan designed to enable commercial concerns to use air conditioning equipment to increase store traffic and employee efficiency as well as to cut overall operating costs. Advantages given for the leasing plan are: 1) When equipment is leased, investment capital is kept working; 2) Leased equipment offers significant tax advantages; 3) Leasing permits lines of credit to be kept open; 4) New and improved equipment models can be obtained at lower cost as they become available by negotiating a new leasing plan.

► A DEMONSTRATOR showing the heat recovery principle of the "Rotary-X-Changer" has been constructed by Heat Recovery Corp. The demonstrator contains a miniature heat recovery unit which is used to recover heat from contaminated exhaust air

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SOLDERING IRONS

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INTERNALLY FIRED TORCH
with AIR RING heat control



For the first time • A torch that meets all the requirements of the sheet metal trade!

Easy Finger Tip Adjustment • Gives the right soldering temperature for each job.

Concentrated heat • Enables light coppers to do heavy continuous work.

Melts solder • 90 seconds after lighting.

Continuous heat • Available all day.

Saves time • No stopping to change irons or replenish fuel.

Saves money • Operates up to 200 hours on a standard Insto-Gas Cylinder.

Highly Portable • Connects to cylinder with any length Insto-Gas hose.

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Two Models • No. 10-S-2 (2 lb. per pr. coppers) and No. 20-S-5 (5 lb. per pr. coppers)

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Clean, instant, easily controlled heat for conventional type irons is obtained with Insto-Gas No. 1500 Soldering Iron Heater. Keeps points out of flame and reduces need for tinning. Fits either cylinder or bench type Insto-Gas furnaces.

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AUTOMATICALLY
CONTROLS THE FLOW
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TO EACH ROOM OR ZONE

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ECONO PRODUCTS COMPANY, INC.
Division of Viking Instruments, Inc. East Haddam, Connecticut

COMFORT
CONTROL by

Zone-A-TROL



A Complete Line
of Zone Controls



For Every Heating
and Cooling System



we hear that

(Continued)

or to cool incoming air when used in air cooled spaces. According to Walter Kempf, sales manager, the demonstrator is available for use at technical meetings.

► HARRY HAGLE and R. R. Briggs have recently joined to form Southeast Sales, Inc., 1128 Solano Ave., Winter Park, Fla., a manufacturers' representative firm handling the sale of heating and air conditioning products in the state of Florida.

Mr. Briggs was formerly general manager of Southern Metal Products Co., Inc., Miami. He has been engaged in sales and promotion work for many years, has been associated with such firms as Viking Air Conditioning Corp. and The Treaty Co. of Greenville and Marion, Ohio.

Mr. Hagle is president of Hagle Supply Co., Inc., Newburgh, N.Y. In January of 1959 he established Hagle Sales, Inc., as Florida factory representative for International Heater Co.

The new firm represents such companies as International Heater Co. and Paco Industries, and is now accepting lines from other manufacturers of heating and air conditioning equipment who are looking for representation in Florida. With offices and warehouse located centrally in the state, Southeast Sales offers manufacturers stocking and handling facilities for expediting orders to potential distributors.

► THREE OUTSTANDING SALES REPRESENTATIVES recently received the "President's Award" from H. P. Mueller Jr., president, Mueller Climatrol Div. of Worthington Corp. The three winners are C. Les Newhart, Sarasota, Fla.; Lawrence J. Studnick Jr., Merchantville, N.J.; and Robert L. Young, Los Angeles.

► LAVERN H. BRENNEMAN was recently elected president and general manager of York-Shipley, Inc. He succeeds Samuel H. Shipley Sr., who has served as president for the past 20 years, and who is now chairman of the board of directors.

► DAVID R. WEBSTER, president of Reznor Mfg. Co., was asked in a recent interview, "What do you consider the most significant developments in the past year in product development for the heating industry in general?" In answering, Mr. Webster stated that he would confine himself to heating equipment that has been developed for the non-residential field. He said, "There are three things I'd like to mention.

"First, there has been a very considerable increase

we hear that

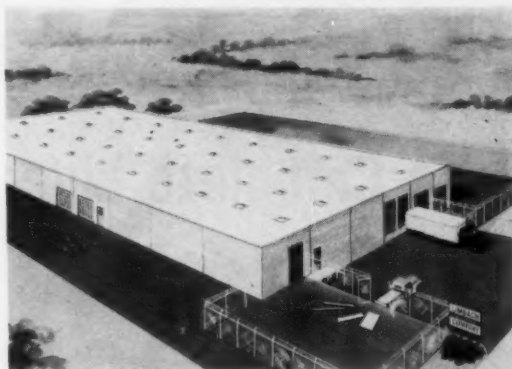
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in interest on the part of people in scores of industries in makeup air equipment. This has resulted not only in a source for very considerable additional equipment sales, but has opened up an entirely new avenue to the really forward thinking and progressive heating dealer-contractor. In every area, in every community, there are scores of places that need makeup air and don't realize it.

"Another item that has been of interest in the non-residential heating field is the greatly increased use of the mechanical exhauster for combustion gases. This exhauster takes the place of a flue or chimney, and insures proper venting of unit heaters, necessary in every case to achieve a satisfactory installation. It will, on the average, cost approximately 10 percent of the installed cost of the average heater, and probably in the majority of cases will save anywhere from three to 10 times its cost over the cost of building a satisfactory chimney or flue. The alert heating dealer-contractor does not wait for someone to ask him for the exhauster, but uses it as an entering wedge to secure a very substantial number of non-residential heating jobs. We believe that wide-awake heating men will capitalize on it.

"One other thing I'd like to mention is the great

amount of interest in radiant or infra-red heat for industrial buildings. I think it is too early to assess its worth. It has a definite place in the non-residential field, but it will take more time and more experience to define exactly what that place is."



NEW BOSTON PLANT of the Limbach Co. is scheduled for completion March 1, is slated to begin fabricating operations March 15

► **THE LIMBACH CO.**, mechanical contracting firm with headquarters in Pittsburgh, is building a 28,000 sq ft plant and office building in Medford, Mass. According to F. Allen Mansfield, manager of the new operation, approximately 60 employees will

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TEE BRANCHES AND ROUND TRUNKLINES

PERFECT FOR ATTIC OR CRAWL SPACE HEATING INSTALLATION. THE IDEAL INSTALLATION COMPANION FOR THE PACKAGED AIR CONDITIONING SYSTEM.



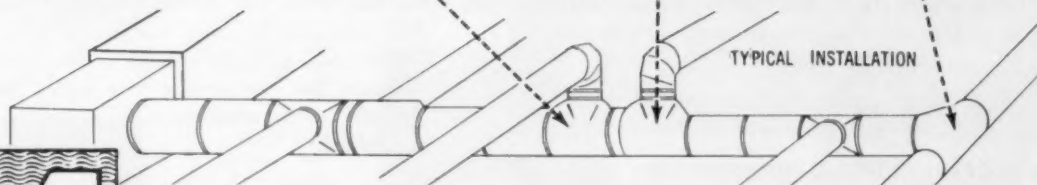
No. 101 Ful-Flo Tee Straight Thru



No. 102 Ful-Flo Tee Reducing



No. 103 Ful-Flo Tee Trunk End



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- Stainless Steel Chimney Liners and Fittings for Gas Heat Installations
- AGA Listed Gas Burner Diverters and Accessories
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Midway 6-7255 Victor 2-3715

we hear that

(Continued)

report to the new plant on March 15 to begin work. They will be fabricating for 200 Limbach construction workers at various job sites in the Boston area.



Frank J. Nunlist

► **FRANK J. NUNLIST**, vice president, operations, of Worthington Corp., has been elected to the board of directors. Mr. Nunlist first became associated with Worthington Corp. when the company acquired the L. J. Mueller Furnace Co. of Milwaukee in 1954. Subsequently he became executive vice president of the Mueller Climatrol division. He was elected a group vice president of Worthington in 1958 and became vice president, operations, in 1960.

► **SONOCO PRODUCTS CO.** recently dedicated its new research laboratories building in memory of Dr. James Edward Mills, the firm's first chief chemist and research director. The new research center, built at a cost of over a quarter of a million dollars, will have three times as much space as present facilities. It was designed so a second floor or additional wings can be added at a later date.

The company recently celebrated the completion of a million man hours of work without a lost-time accident. To promote the idea of safety among employees, the firm sets aside a cash reserve for each 250,000 safe man hours worked. If an accident occurs prior to the 250,000 safe hours, nothing is set aside. If one happens after this period but before reaching one million man hours, it is necessary to start over with the accumulated funds remaining in the "kitty."

► **ABOUT 75,000 LB** of type 316 stainless steel went into ceiling frames, doors, column bases, vestibules, telephone alcoves, railings, etc., used to modernize the convention hall at Atlantic City. According to Allegheny Ludlum Steel Corp., type 316 stainless was selected not only because of its attractive appearance, but also because it is highly resistant to the salty ocean atmosphere, is easily cleaned and maintained.

► **COATINGS ON ALL GUSTIN-BACON DUCT LINERS** will now carry a factory-applied continuous imprint that shows density and type of coating. According to company officials, the new imprint was designed to make job identification and inspection easier.

► **HERSHMAN SHEET METAL WORKS, INC.**, has doubled its manufacturing space with the acquisition of two buildings adjacent to its plant at 12th and Dauphin Sts., Philadelphia. The firm manufactures ductwork for heating, cooling and ventilating systems.

► **WESTINGHOUSE ELECTRIC CORP.'s** Total Electric Home program has been expanded into a newly formed organization — the residential marketing department. William H. Loeber, former Total Electric Home marketing manager, has been named manager, residential marketing department.

► A "KEY DEALER PLAN" designed to help heating and air conditioning dealer-contractors boost sales and profits was launched the first of this year by Delco Appliance Div. of General Motors. Under the plan, GM-Delco franchises are being awarded to a limited number of dealer-contractors in each market. According to John T. Tighe, appliance sales manager, the division will provide both engineering and sales-building assistance to its dealer-contractors. This assistance will cover such areas as customer relations; sales, service and installation training; sales promotion, publicity and local and national advertising with dealer listings.

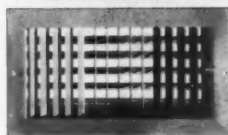


MODERNIZED TRADEMARK was designed to carry more impact, provide greater readability, while retaining familiar inverted triangle in makeup

► A NEW CORPORATE IDENTITY SYSTEM — including a new trademark and new nomenclature — has been adopted by Armco Steel Corp. According to Logan T. Johnston, president, the new trademark "modernizes our 46-year-old inverted triangle, and gives visual expression to Armco's growth during the past 60 years." Mr. Johnston pointed out that there exists today "a new era of high competition between materials." The company's new trademark, he said, "gives expression to our determination to keep moving forward."

ATLAS GRILLES & DIFFUSERS

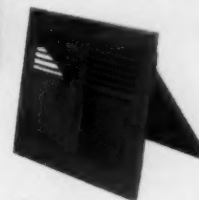
FOR HEATING and COOLING



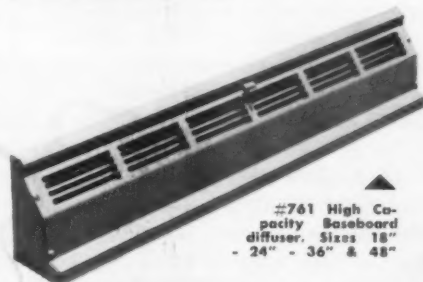
► #4201 Cooling Register 2-way deflection with Multi-Valve control Available in all sizes.



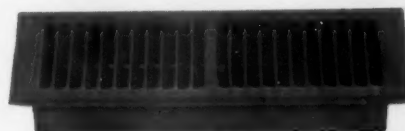
► #90-5D-Ceiling Diffuser Sizes 6" to 12" in steel and Aluminum.



► #611 Wall Diffuser Sizes — 8"x6" to 16"x8"



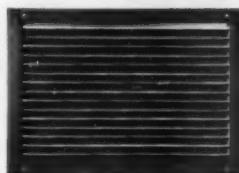
► #761 High Capacity Baseboard diffuser. Sizes 18" - 24" - 36" & 48"



► #884 Floor Diffuser Sizes 2 1/4" x 8" to 6" x 14"

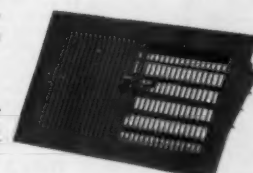


► #4212 Commercial Register 4-way Deflection opposed Blade damper Available in all sizes



► #4100 Return Air Grille Available in all sizes

► #213 Cooling Register with Scoop-Multi-Valve Sizes 8" x 5" to 30" x 8"



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Klenk's double sliding cam action cutters give you 20% more cutting power. Made possible by more opening in the jaws and less opening in the handles. w/grips \$5.15, w/spur \$4.85
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Model TE-100 METLMASTR illustrated has an edge cutting capacity of 12 ga. in mild steel and 16 ga. in stainless. Its versatility accomplishes numerous cutting and forming operations—it eliminates many single-purpose machines. Simplified operating mechanism (only 5 moving parts) and unobstructed shearing vision assure accurate work and a high safety factor. Requires only a minimum of instructional time. It will pay you to get the complete METLMASTR story. 4 models to choose from. Write us today.

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wholesaler doings . .

► A "PLAN NOW FOR SPRING" promotion program is being launched this month by Souther Steel and Aluminum Co., St. Louis wholesaler. Lee J. Haines, president, says: "It is hoped that a good strong, well-developed promotion during late January and early February will enable us to get off to a fast start for the year 1961. It is necessary that we make every effort to develop sales during the first six months of the year. A program of this type should be beneficial in every direction."

The program will get under way at the Souther company's plant with open houses scheduled for the following Fridays and Saturdays: Jan. 20 and 21; Jan. 27 and 28; Feb. 3 and 4; and Feb. 10 and 11.

Written invitations are being sent to each dealer-contractor inviting him to visit the plant during these dates to see all the various products handled, which include gutters and downspouts, furnaces, air conditioning equipment, electronic air cleaners, fireplaces, storm windows and doors, chimney caps, shutters, siding, and ventilating fans.

Motion pictures will be shown in the company's conference room and explanations of the sales aids available for use in developing prospects and closing sales will follow the movies. In addition to the Souther firm's sales organization, representatives of other manufacturers whose products are on display will be in attendance. The program will stress modernization, and dealer-contractors will be shown how early promotional plans will assist them in making more sales during the early months of 1961.

The sales promotion kit will include:

- 1) Suggested procedure and timetable of events for a spring promotion at the dealer level.
- 2) Ad mats and television commercials.
- 3) Direct mail and advertising literature.
- 4) Door to door canvassing materials.
- 5) Financing instructions and procedures.
- 6) Cooperative newspaper advertising suggestions.
- 7) Dealer-contractor sales procedures.
- 8) Lapel buttons approximately 2 in. in diameter printed with the words: "Plan Now for Spring."
- 9) Yellow banners for window display measuring approximately 12 × 48 in., and also carrying the "Plan Now for Spring" message.

During the latter part of February, dealer-contractor meetings will be scheduled for outlying towns such as Quincy, Kirksville, Jefferson City, Columbia, Cape Girardeau, Mt. Vernon (Ill.) and other locations where the program can be presented to people within a 25 to 50 mile radius of the locale.

► ROBERTSON HEATING & SUPPLY Co. has opened a new branch at East Liverpool, Ohio. Bob Cain is manager of the new branch.

merchandising ideas

► NOW AVAILABLE to dealer-contractors and distributors handling Timken Silent Automatic furnaces is a demonstrator model mounted on a trailer. Fully wired and assembled, the demonstrator need only be plugged into a standard electrical outlet. Thus it may be shown in actual operation at the curb, in a driveway, at a shopping center and other such locations.

A pre-arranged viewing port permits onlookers to see directly into the combustion chamber. According to the company, ratio of sales closed runs a little better than one for every three demonstrations.

► THE HOME PRODUCTS GROUP, Rheem Mfg. Co., is now distributing doorknob hangers promoting water heaters. Space is provided for the dealer-contractor's name and phone number. The company points out that this type of sales promotion program gives the dealer-contractor an opportunity to select homes that have been in use long enough to be likely prospects for replacements of present water heating equipment.

► A "HELP YOURSELF" counter display literature rack is available to wholesalers of "UCON" refrigerants from Ansul Chemical Co. Literature, concentrating on technical information, equipment and service news, will be changed periodically. The first three pamphlets to be issued are "Low Temperature Systems — Keeping the Temperature Down May Require a Specially Engineered System;" "Compressors Are Chemical Reactors — Air Cooled Units Present Special Problems;" and "Evacuation — The Way to Inwarranty Service and Greater Profits." The rack, standing approximately 22 in. high, features a picture of "Ucon Ike," animated cartoon character symbolizing "UCON" brand refrigerants.

► HOW TO SAVE DOLLARS AND FUEL this winter was recently explained to radio audiences in nine major cities on "The Housewives Protective League" program. The radio script, prepared by the National Fueloil Council, explains to homeowners that now is the time to "take a careful look at your home heating system and decide whether you're getting the maximum comfort in the most economical manner." The council points out that over 20 million American homes today rely on the central heating system, "but it seems that people know less about the apparatus that keeps them warm than they do about their watch, car or even electric toaster." For top efficiency, homeowners are advised to have their heating plants checked by a professional heating man once a year, lubricated, tuned up and generally conditioned.

NEW IMPROVED DESIGN
SNAPO AUTOMATIC DELUXE RIVET GUN
ONLY \$22.95 COMPLETE KIT WITH RIVETS

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For "blind"—and for many non-blind applications—here is the answer to low-cost, quick assembly. "SNAPO Automatic Deluxe" is jam-proof because of automatic ejection of the mandrel nail after the unique rivet is set. Eliminates many welding jobs, replaces sheet metal screws, bolts and nuts, gets into confined areas. Rivets absolutely will not vibrate loose, heads countersunk for easy finishing. Write today!

The Finest "Blind" Rivet Gun Made
We invite you to compare, and you'll agree that this is the most durable, highest quality, easiest-to-use "Blind" rivet gun made. Save time and money on fastening, repair jobs.

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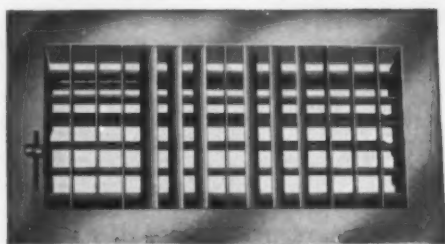
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Seals Ducts...
Secures Insulation...
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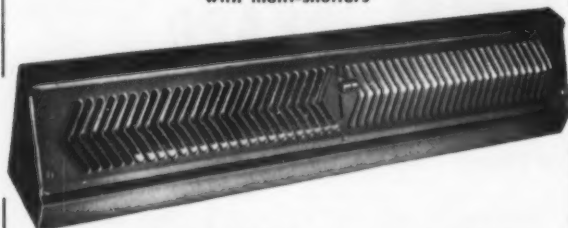
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- ✓ Ideal for slab ducts.
- ✓ Also, flame-resistant type.
- ✓ Ask your jobber for DUCTAPE.

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MODEL AV-7—AIR VANE HIGH EFFICIENCY TYPE
For cooling and heating, four-way deflection
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ARRO-FLO DIFFUSOR AF-20" and AF-30"
HIGH EFFICIENCY BASE-BOARD TYPE OUT-OF-WALL
REGISTER FOR BOTH HEATING AND COOLING PUR-
POSES. Our distinctive Arro-Line styling blends with any sur-
roundings, measuring only 3 7/8" in height, allowing for ideal
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FLANGES THE DUCT with Amazing Speed!

Less than 5 seconds on short
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MAKES PERFECT DRIVE-CLEATS TOO!

The ONLY tool that does both.
A complete drive cleating tool . . .
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fit the duct without
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TREMENDOUS SAVINGS
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appointments . . .

► **MILO J. CHAVEZ** as vice president, sales, for Southwest Mfg. Co. Mr. Chavez formerly held executive positions with both the Gibson and the Perfection divisions of the Hupp Corp.



Milo J. Chavez



Robbie L. Stephens

► **ROBBIE L. STEPHENS** as sales manager, a newly created position, for the Decatur, Ga., operation of Lennox Industries Inc. Previously Mr. Stephens was manager of air conditioning for the company's Fort Worth office.



G. Lewis Bridgforth Joseph Rosenson Martin J. Boyle

► **G. LEWIS BRIDGFORTH** as sales manager, unit and duct heaters, for Bryant Mfg. Co. Mr. Bridgforth was previously with Minneapolis-Honeywell Regulator Co. Joseph Rosenson and Martin J. Boyle have been named regional sales managers for heating and air conditioning products. Mr. Rosenson will head heating and air conditioning sales in the southeastern district, will serve distributors located in Alabama, North and South Carolina, Tennessee, Mississippi, Florida and Georgia. Mr. Boyle, as eastern regional sales manager, will cover New York, Pennsylvania, Connecticut, Virginia, West Virginia and the District of Columbia.

► **AUGUST A. F. SCHMIDT** as sales manager for Grant Wilson, Inc. Mr. Schmidt was previously with United States Gypsum Co., has also been associated with Celotex Corp. and Lockport Mills, Inc. He will headquarter in the Wilson company's executive offices located in the Chicago Board of Trade Building.



Cuts Your Stock Requirements $\frac{2}{3}$

- Wide-range adjustable collar (pats. pend.)
- Clog proof • Baffles stop rain and snow
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VERSACAP's exclusive adjustable collar greatly reduces inventories since four models fit pipe diameters from $2\frac{1}{2}$ " thru $8\frac{1}{2}$ " inclusive. It's so versatile it can be used for any type of installation. Made of corrosion resistant aluminum and is designed for all fuels—gas, oil, coal, wood.

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NOW! PORTABLE SOOTMASTER FURNACE CLEANER

Easily carried —
Heavy duty performance — more economical — maximum filtration — maneuverable —
New elastic top reusable filter bag

COMES COMPLETE WITH

- 10' duck covered hose
- 27" furnace cleaning tool
- 10 reusable paper filter bags
- Handy hose carrying cage
- Available without wheels



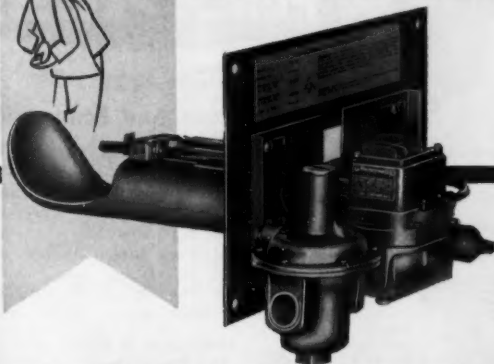
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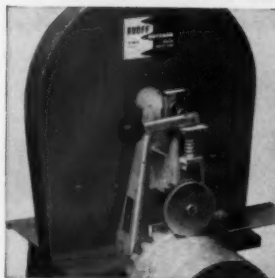
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- Flawless Design and Construction.
- No-Burn-Out, One-Piece Cast Iron Venturi and Flame Spreader.
- Fast, Easy Installation... Fits through Four-Inch Oil Burner Sleeve.
- M. H. Controls, Available in Powerpile or 24-Volt System.
- 60,000 to 150,000 BTU Input.

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BANNER BURNER CO.
227 EAST INDIANLA AVENUE, YOUNGSTOWN 7, OHIO

MAKE A SLOW JOB FAST AND EASY!

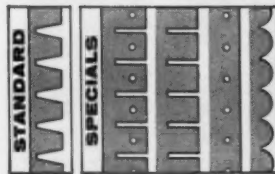


With a Ruoff Notcher you can notch flat or curved sheet metal at speeds up to 18 feet per minute. Automatic feed and depth of notch are adjustable.

Ten times as fast as hand cutting! Time for measuring and layout eliminated!

Notches up to 21 gauge sheet with $\frac{1}{4}$ hp — 110 volt motor, up to 16 gauge with larger motor.

Ruoff Notchers are supplied complete with floor stand. Just plug it in and you are ready to go. Immediate delivery.



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Distributors: Franchise available in some areas.
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ALVA ALLEN Heavy Duty PUNCH PRESSES

**Powerful
Dependable and Economical
Fully Guaranteed**

**Moderate
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See your Supply Dealer
or write for Catalog giving
complete information,
specifications and
prices on our line of
Heavy Duty Punch
Presses.

Hundreds of Different
Model Combinations
1 to 25 ton capacities

Thousands in Use
the World Over

Model BT-25
25 Ton—\$1097.50
less motor—job

Model LTX
Special Duty
1 Ton—\$89.50
less motor—job

Model BT-12
12 Ton—\$437.50
less motor—job

Dial Index Feed
as low as—\$450.00

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Punch Press
\$199.50
less motor—job

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8 Ton—\$347.50
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as low as—\$145.00

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ALVA ALLEN INDUSTRIES, Dept. AA
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**THERE'S AN AIRSERCO
PRODUCT EXACTLY RIGHT
FOR YOUR APPLICATION!**

Airserco builds the most versatile
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conditioning and refrigeration industry.

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High
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5 Inch
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Portable
Charging
Station

"Creative leadership in air-conditioning and refrigeration."

AIRSERCO MANUFACTURING CO.
435 Melwood Ave. Pittsburgh 13, Pa.

appointments

(Continued)

► **PIERCE V. BURKE** as sales manager for Timken Silent Automatic Products, a division of Iron Fireman Mfg. Co.'s heating and air conditioning division. For the past four years, Mr. Burke has been associated with Carrier Corp.'s Unitary Equipment Div. as sales manager, residential heating equipment.



Pierce V. Burke



John M. Furin

► **JOHN M. FURIN** as sales manager, Home Comfort Products Div., The Lau Blower Co. Prior to his new appointment, Mr. Furin was assistant sales manager for the Viking Air Products division.

► **ROLAND E. PILLAT** as sales manager for Typhoon Heat Pump Div., Hupp Corp. Previously, Mr. Pillat was associated with a manufacturers' representative selling Typhoon air conditioning and heat pump products in the northwest and Alaska. He has written a number of technical papers on heat pump applications for both air conditioning and electrical publications.



Roland E. Pillat



J. E. Rowell

► **J. E. ROWELL**, formerly southern district sales manager, as director of sales for General Products Co., Inc. Mr. Rowell has been with the company since 1954.

► **PAUL E. JONES** as manager of the Chicago sales district of Fairmont Aluminum Co. For the past six years, Mr. Jones has been with Kaiser Aluminum's industrial sales department in the Chicago area. Before that he was midwestern sales manager for Allegheny Steel Band Co.

BLOW PIPE PARTS



any size or type

Write for Literature and Prices
THE KIRK & BLUM MFG. CO.
 3180 FORRER ST. • CINCINNATI 9, OHIO

KIRK & BLUM

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A fact . . . more profits in dollars for you with DUST-magnet filters. Competitively priced and with an excellent profit margin. There are more advantages to stocking and selling DUST-magnet filters than any other filter. DUST-magnet filters are manufactured with Poly-Mag 80, an electrostatic plastic exclusively designed for Stoddard Industries . . . permanent filters guaranteed for the life of the unit in which used. Order them now from your wholesaler.



Rinse, shake and replace.



Trap particles as small as 4/10 micron

DUST-magnet filters

a product of **STODDARD INDUSTRIES**
 3383 E. Layton Ave., Cudahy, Wisconsin

WHITNEY-JENSEN HAND METAL PUNCHES

For a Multitude of Uses



No. 5 Jr. PUNCH
 World-wide favorite. Capacity $\frac{1}{4}$ " hole thru 16 ga. mild steel. In metal box with 7 punches and dies.



No. 88 Aluminum



Nos. 7, 7 1/2, 8
IMPERIAL ROLLER BEARING PUNCHES
 Punch and strip positively inside 90°. Capacities range from $\frac{1}{4}$ " hole thru $\frac{1}{8}$ " mild steel to $\frac{1}{4}$ " thru $\frac{1}{4}$ ", weights from 7 1/2 to 17 1/2 lbs. No. 88 is an aluminum model.



Nos. 10, 11, 12
BALL BEARING PUNCHES
 Rotary action provides tremendous punching power in these light-weight tools. Capacity, $\frac{3}{8}$ " hole thru $\frac{1}{4}$ " mild steel, weights 8 1/2 to 12 3/4 lbs. for throat depths from 1 1/2" to 2 1/4".

Screw-Press Action

Write Us Now for Complete Information and Prices
WHITNEY METAL TOOL COMPANY
 702 Forbes St., Rockford, Illinois

Aqua-Aire

AUTOMATIC HUMIDIFIER

With Its New Revolutionary Principle.
 Scientifically Controlled Humidity.



Only One Moving Part

FEATURES:
 Stainless Steel Construction . . . No Excess Water Overflow . . . No Electric Water Valve to Service . . . Humidistat — 1/100 HP Motor . . . Dimension — 10" x 10" x 18".

SIMPLE INSTALLATION
 The AQUA-AIRE humidifier is designed to be mounted on the hot and cold air plenum chambers. Two 6" diameter holes are cut each plenum, to admit air circulation through the AQUA-AIRE.

Saddle valve furnished is to be tapped into the cold, hard water supply and connected to the float assembly by a $\frac{1}{4}$ " copper tube. No overflow drain necessary.

Humidistat may be installed in any location within the area to be humidified. Wiring is by 110 volts in series with the blower and humidistat.

Write for further details to:
B. & D. ENTERPRISES, INC.
 1041 E. JOHNSON STREET MADISON 3, WIS.

appointments

(Continued)

► E. E. HUSTED as manager, fluorocarbons marketing, and Charles F. Gray as sales manager, UCON refrigerants, for Union Carbide Chemicals Co., Div. of Union Carbide Corp. Mr. Husted has been with the firm since 1945, Mr. Gray since 1952.

► B & H ASSOCIATES, INC., Jenkintown, Pa., as Philadelphia sales representative for Modine Mfg. Co. B & H Associates is headed by J. A. Holmes and F. R. Bingham.

Obituary

A. Corbman

A. CORBMAN, founder and president of the Adelta Mfg. Co., Inc., died suddenly November 23, 1960. He was 62 years old. Mr. Corbman was a member of the Air Distribution Institute and of the American Society of Heating, Refrigerating and Air-Conditioning Engineers. He is survived by his wife; a son, Robert, who assumes executive leadership of the firm; a brother and a sister.



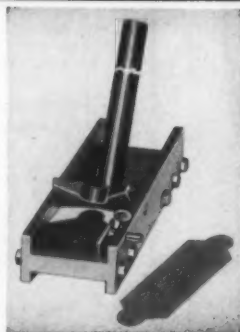
SWIVEL HEAD SQUEEZER TONGS ▲
For closing Government box lock connection on duct work and all standing seams. Swivel head makes tongs usable on all four sides, in either vertical or horizontal position.

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line of **SHEET
METAL MACHINES
AND TOOLS**

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REINER & CAMPBELL CO., INC.

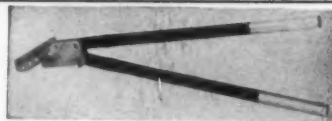
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Newark 5, N.J.



DRIVE CLEAT NOTCHER ►
Handles up to 3" wide, 20 ga. or lighter. Hand operated. Mounts on bench, or on job with clamps, or bolts and screws.

CLIP PUNCH ►

For fastening slips or seams on ducts. Will push a "half moon" thru 3 thicknesses of 18-ga. steel. No hammering or flattening out to fasten clip to the duct.



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Fastest, most accurate on the market. Two sizes for circles up to 36" and 48". Removable steel points, or pencil. No center punch needed.



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SAFE • FAST • POSITIVE

Kilgore

SMOKE CANDLES

Write Today For Catalog

Harvell-Kilgore Corp., Bolivar, Tenn.



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STAMPINGS & SPINNINGS

Zinc Ornaments Available From Stock. Copper, brass, bronze, aluminum and stainless steel ornaments made up promptly.

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BROOKLYN, N.Y.

CONNECTICUT

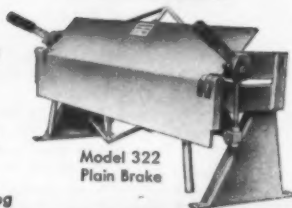
**PLAIN & UNIVERSAL
"MORE BRAKE PER DOLLAR"**

Model No.	Length	Shipping Weight	Price F.O.B. Factory
322	3 ft.	155 lbs.	\$125.00
422	4 ft.	185 lbs.	155.00
U322	3 ft.	205 lbs.	170.00
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Capacity 1/2 flange on 22 gage mild steel, full length, on all models.

* Universal brakes with fingers.

See your Dealer or write for catalog



Model 322
Plain Brake

BUILT BY **W. WHITNEY STUECK, INC.**

BOX 355A,

OLD SAYBROOK, CONN.

FLUX FOR ALL SOLDERING NEEDS...

Paste, Liquid, Salts, etc.

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GO TO GOETHEL FOR FAST SERVICE ... WE HAVE WHAT YOU NEED



FULL BLAST
GATES 3"
and up
STOCK

FLANGES &
GASKETS
BLOWPIPE
ELBOWS
DUST
COLLECTORS
& FITTINGS
PVC PLASTIC
HOODS —



▲ BALL JOINTS
PIPE — ELBOWS 3" to 12" STOCK



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GATES 3"
to 8"
STOCK

Immediate ship-
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PIPING
10' LENGTHS, 7"
& LARGER. 16 ga
and LIGHTER

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**New
comfort
performance**

LET US QUOTE ON YOUR
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HEATING and COOLING EQUIPMENT

THE MEYER FURNACE COMPANY

PEORIA, ILLINOIS

Hard to

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Metals

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ORIGINAL REPAIR PARTS for
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Repairs for other makes such as: PENINSULAR, LAUREL,
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WILLIAMSON, ETC.

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LIVINGSTON, INC., MARSHALL MICHIGAN

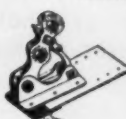
Your warm air heating supply house

ORNAMENTAL LEADER STRAPS



"RIVAL" B Copper &
Zinc—3", 4", 5"
"FITRITE" L Copper &
Zinc, 3", 4"
"FITRITE" Jr. NOT ILLUS-
TRATED—Copper,
Zinc & Alum. 3"-4"
SOLD THROUGH
JOBBER'S ONLY

ADJUSTABLE PIPE SNOW GUARDS



"FITRITE"
3 pipes 3/4" I.P.S.
For slate, metal,
tile & composition
roofs. "FIT-
RITE" JR. not
shown 2 pipes
1/2" I.P.S.



"PROTECTOR"
2 pipes
1/2" I.P.S.
For smaller
slate roofs,
new or old

"FITRITE" SKYLIGHT GEARING



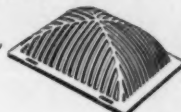
3/4", 1/2", 1"
Hook or chain
operation 1/2"
Gearing as-
sembled on
20" pipe

"FITRITE" ROOF STRAINERS

Bronze and Aluminum



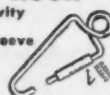
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3"-8" round.
Also 3" x 4",
4" x 5"
square



3 types
6", 8", 10",
12" square

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with gravity
operated
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"FITRITE" 3-WAY CLAMP

A New Vise-grip Made
Exclusively For Us



"FITRITE" CAST BRONZE HINGED LEADER BAND



Made for
3" & 4"
square
corrugated
also 3" &
4" round

To Protect Trade Please Use Printed Stationery

"FITRITE" ADJUSTABLE SWING CHIMNEY JACK FRAME



Five sizes
in one
For 6"-10"
pipe.

DAVID LEVOW

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SO. HACKENSACK, N.J.



BRUSHES and SCRAPERS

For Cleaning Tubes and Flues



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**BOILERS • FURNACES
CHIMNEYS**

Whole-
saler's:
Write For
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**WORCESTER BRUSH AND
SCRAPER CO.**

Division of
**MASON-WORCESTER
BRUSH CO.**

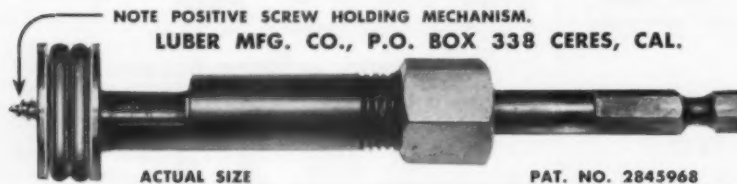
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AMERICAN
ARTISAN'S

SERVICE

The Luber Automatic Screw Driller

Inserts slotted head self tapping screws into Flat Sheet Iron — or round duct, without drilling a pilot hole. No hex head or magnets used. Write for literature sent by air mail.



NOTE POSITIVE SCREW HOLDING MECHANISM.

LUBER MFG. CO., P.O. BOX 338 CERES, CAL.

ACTUAL SIZE

PAT. NO. 2845968

TOOLS for the ROOFING CONTRACTOR

AXES
BEAMS
BRACKETS
BROOMS
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DIPPERS
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LADDERS
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Manufacturer of accessory item for Heating, Air Conditioning and Refrigeration trade wants an additional product or products to manufacture and/or distribute. Has National distribution through manufacturers representatives. Products must be fully engineered and developed — preferably now on the market. Must be on an exclusive basis. Write Key 1205, American Artisan, 6 N. Michigan Ave., Chicago 2, Illinois.

✓ Lines Wanted

New Manufacturers Representative Tennessee seeking heating, cooling lines. Space Heaters, Unit and duct Heaters, Cooling Towers, Pumps, Venting equipment, Registers, Grilles and Diffusers. Write: Joe D. Demonbreun, 4909 Tanglewood Drive, Nashville, Tennessee.

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Sales representative calling directly on trade accounts wanted by furnace and air conditioner manufacturer. Complete line oil, gas, electric furnaces and air-cooled split-system air conditioners. Territory available in Midwest, East, Southeast and Southwest. Give details as to experience, territory, other lines handled. Replies held in confidence. Address Key 1204, American Artisan, 6 N. Michigan Ave., Chicago 2, Ill.

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Accurate Revolving Ventilators

Sizes 3" to 36"

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Stocked by leading jobbers everywhere

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SO SOFT RUBBER KNEE PROTECTORS EVERY ROOFER SHOULD HAVE A PAIR. PRICE \$2.50.

ORDER YOURS TODAY.

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LADDER SHOE CO.
EAU CLAIRE, WIS.

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This special series covers every angle of oil burner work, including arrangement of shop . . . stocking parts . . . record-keeping . . . installation procedures . . . the handling of crews . . . how to make heating surveys . . . how to size combustion chamber . . . how to install thermostat . . . how to start the burner . . . how to use testing instruments . . . and how to operate a service department. It contains, as well, a complete list of causes and cures of oil burner trouble that will serve as a reliable guide in making service calls. Every shop handling oil burner jobs should own this book. Full size, 8½ by 11 inches — 37 pages of practical helps. Send \$1.00 for a copy to the address below.

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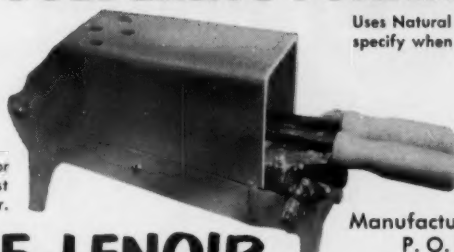
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heats two 12-pound coppers in 4 minutes
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heavy cast body withstands hard use
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dirt proof guard protects the burners
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concentrates heat, protects work benches

ADDIS No. 2 SOLDERING FURNACE

\$16⁵⁰

F.O.B. Houston

Write direct or contact your nearest distributor.



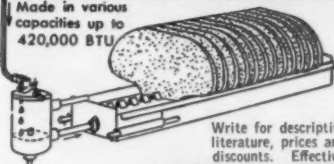
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Made in various capacities up to 420,000 BTU



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PHONE: Haymarket 1-0900

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Operates in 1" of water.

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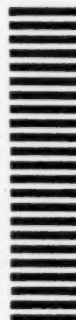
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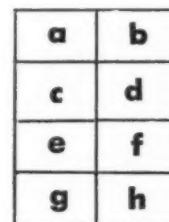
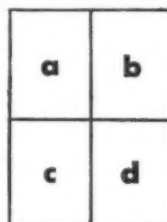
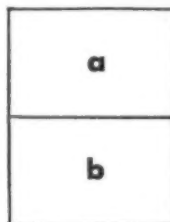
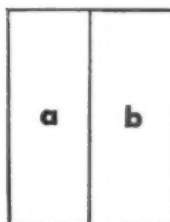


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The numbers on this card are page numbers of advertisements in this issue, and the numbers of the items in the Equipment Developments and New Literature departments. Circle the numbers on the card below that represent the products you want more information on. We will notify the manufacturers.

If advertisement is two or more pages, only first page is listed. If a fractional page ad, the letter following the number indicates position on the page. For Service Section advertisers, please write in the name of the company on the line provided. Be sure to fill in your name and address clearly.

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IFC means inside front cover, IBC inside back cover, OBC outside back cover.

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5	19	40	58	74	131	155	166b	177	188b	193a	195c	303	314	325	336		403	414
6	27	43	60	75	134	156	167	178	189a	193b	195d	304	315	326	337		404	415
7	28a	45	61	76	137	157	168	179a	189b	193c	195e	305	316	327	338		405	416
8	28b	46	62	77	139	158	169	179b	190a	193d	195f	306	317	328	339		406	
9	29	48a	64	78	141	159a	170	180	190b	194a	198	307	318	329	340		407	
10	30	49	66	79	143	159b	171	181	191a	194b	IBC	308	319	330	341		408	
11	32	50	67	80	145	161	172	182	191b	194c	OBC	309	320	331	342		409	
12	33	52	69	82	147	162a	173	183	191c	194d		310	321	332	343		410	
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For Service Section advertisers write name of company on this line _____

YOUR NAME POSITION

COMPANY

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Section of JANUARY 1961

AMERICAN ARTISAN 1961 DIRECTORY

OF

RESIDENTIAL AIR CONDITIONING, WARM AIR HEATING
AND SHEET METAL PRODUCTS

How to
use the
listings

Part 1—Products Advertised In This Issue Page 3d

For the names of the manufacturers of products advertised in this issue, and the numbers of the pages on which their advertisements appear, look in Part 1, where the advertised products are classified in "directory style" with the noun governing. Page numbers of manufacturers' advertisements published in this issue also appear on the last page of this yellow Directory Section.

Part 2—All Products Classified Page 8d

If you want to know the names of one or more manufacturers making a certain product, look in Part 2, where all products are classified alphabetically in directory style with the noun governing (for instance, Forced Warm Air Furnaces are listed as Furnaces, Forced Warm Air).

Part 3—All Trade Names Page 115d

If you have the trade name of a product and want to know who manufactures it, look in Part 3, where trade names are alphabetically listed. Trade names the same as or identifiable with the company name are not listed. Manufacturers with such trade names can be readily identified under their product classification in Parts 1 and 2.

Part 4—All Manufacturers' Addresses Page 142d

For the complete name and address of any manufacturer, look in Part 4.

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American Artisan
6 North Michigan Ave.
Chicago 2, Illinois

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Chicago 2, Ill.

Section of

American Artisan

1961 DIRECTORY OF RESIDENTIAL AIR CONDITIONING, WARM AIR HEATING AND SHEET METAL PRODUCTS

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General Sound Control, Inc., Los Angeles, Calif.
Hansson, Inc., Elof, Acoustical Div., New York, N. Y.
Industrial Acoustics Co., Inc., New York, N. Y.
Insul-Coustic Corp., Maspeth, N. Y.
Koppers Co., Inc., Metal Products Div., Baltimore, Md.
Korfund Co., Westbury, L.I., N.Y.
Silence, Inc., Farmingdale, N. Y.
Sound Reduction Corp., East Hartford, Conn.
United Sheet Metal Co., Inc., Columbus, O.

ABSORBERS, VIBRATION FOR REFRIGERANT LINES

Anaconda Metal Hose Div., American Brass Co., Waterbury, Conn.
Flexonics Corp., Maywood, Ill.
Korfund Co., Westbury, L.I., N.Y.
MB Electronics, A Div. of Textron Electronics, Inc., New Haven, Conn.
Packless Metal Hose, Inc., Mt. Vernon, N. Y.
Pennsylvania Flexible Metallic Tubing Co., Paoli, Pa.
Seamlex Co., Inc., Long Island City, N. Y.
Techniflex Corp., Port Jervis, N. Y.
United Metal Hose Co., Inc., Long Island City, N. Y.
United States Rubber Co., New York, N. Y.
Universal Metal Hose Co., Chicago, Ill.
Vibration Mountings and Controls Inc., Corona, N.Y.
Williamson Co., The, Cincinnati, O.

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Armstrong Cork Co., Lancaster, Pa.
Cain Mfg. Inc., Birmingham, Ala.
Carboline Co., St. Louis, Mo.
Columbia Cement Co., Inc., Brooklyn, N. Y.
Cordo Chemical Corp., Norwalk, Conn.
Dow Corning Corp., Midland, Mich.
du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
Fuller Co., H. B., St. Paul, Minn.
Goodrich Industrial Products Co., B. F., Akron, O.

Insul-Coustic Corp., Maspeth, N. Y.
Interchemical Corp., Finishes Div., Newark, N. J.
Minnesota Mining & Mfg. Co., Adhesives, Coatings & Sealers Div., St. Paul, Minn.
Monsanto Chemical Co., St. Louis, Mo.
Moore, Inc., Goodloe E., Danville, Ill.
Permacel, New Brunswick, N. J.
Products Research Co., Burbank, Calif.
Refractory & Insulation Corp., New York, N. Y.
Rubber and Asbestos Corp., Bloomfield, N. J.
Stic-Klip Mfg. Co., Inc., Cambridge, Mass.

ADHESIVES, INSULATION (FOR DUCT APPLICATIONS)

Armstrong Cork Co., Lancaster, Pa.
Bostik Adhesive Dept., B B Chemical Co., Subsidiary of United Shoe Machinery Corp., Boston, Mass.
Cain Mfg. Inc., Birmingham, Ala.
Capac Mfg. Corp., Capac, Mich.
Columbia Cement Co. Inc., Brooklyn, N. Y.
Duro-Dyne Corp., Farmingdale, N. Y.
Eagle-Picher Co., Cincinnati, O.
Flintkote Co., New York, N. Y.
Forty-Eight Insulations, Inc., Aurora, Ill.
Goodrich Industrial Products Co., B. F., Akron, O.
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Presstite Div., American-Marietta Co., St. Louis, Mo.
Refractory & Insulation Corp., New York, N. Y.
Rubber and Asbestos Corp., Bloomfield, N. J.
St. Clair Rubber Co., Detroit, Mich.
Silvercote Products, Inc., Chicago, Ill.
West Chester Chemical Co., West Chester, Pa.
Wilson, Inc., Grant, Chicago, Ill.

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ALARMS, HEATING PLANT FAILURE

Acme Equipment, Inc., Altoona, Pa.
Herbert Fuel Devices, Darien, Conn.
Wilson Industries, Inc., Brooklyn, N. Y.

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ANALYZERS, CO., PORTABLE

Bacharach Industrial Instrument Co., Pittsburgh, Pa.
Defender Instrument & Regulator Co., Boody, Ill.
Dwyer Mfg. Co., F. W., Michigan City, Ind.
Ellison Draft Gage Co., Inc., Chicago, Ill.
Engelhard Industries Inc., Instruments & Systems Div., East Newark, N. J.
General Scientific Equipment Co., Philadelphia, Pa.
Hays Corp., Michigan City, Ind.
Permutit Co., Div. of Pfaunder Permutit Inc., New York, N. Y.
Thermco Instrument Corp., LaPorte, Ind.
Uehling Instrument Co., Paterson, N. J.
Victory Engineering Corp., Union, N. J.

ANCHORS, DUCT AND PIPE (FOR DUCTS WHEN POURING CONCRETE SLABS)

Accurate Sheet Metal & Mfg. Works, Chicago, Ill.
Edward Associates, Seattle, Wash.
Southern Mist Products Co., Evanston, Ill.
Williamson Co., The, Cincinnati, O.

ANCHORS, EXPANSION

Arro Expansion Bolt Co., Marion, O.
Brush Nail Expansion Bolt Co., Greenwich, Conn.
Bulldog Div., Gregory Industries, Inc., Lorain, O.
Chicago Expansion Bolt Co., Chicago, Ill.
Holub Industries, Inc., Sycamore, Ill. (Plastic)
Kirel, Inc., Kingston, N. Y.
National Lead Co., New York, N. Y.
Phillips Drill Co., Michigan City, Ind.
Rawlplug Co., Inc., The, New Rochelle, N. Y.
Paine Co., Addison, Ill.
Star Expansion Industries Corp., Mountainville, N. Y.
U.S. Expansion Bolt Co., York, Pa.

ANEMOMETERS

Anemostat Corp. of America, New York, N. Y.
Bacharach Industrial Instrument Co., Pittsburgh, Pa.
Central Scientific Co., Chicago, Ill.
Detroit Air Conditioning Service Co., Detroit, Mich.
Dwyer Mfg. Co., F. W., Michigan City, Ind.
Friez Instrument Div., Bendix Aviation Corp., Baltimore, Md.
General Scientific Equipment Co., Philadelphia, Pa.
Hastings-Raydist, Inc., Hampton, Va.
Hill & Co., E. Vernon, Lake Geneva, Wis.
Illinois Testing Laboratories, Inc., Chicago, Ill. (Thermo-electrical)
Taylor Instrument Companies, Rochester, N. Y.
Willson Products Div., Ray-O-Vac Co., Reading, Pa.

ANGLE IRON BENDING MACHINES

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ANGLES, ANGLE RINGS, BARS, BEAMS, CHANNELS AND TEES

Allegheny Ludlum Steel Corp., Pittsburgh, Pa.
Aluminum Co. of America, Pittsburgh, Pa.
Anaconda American Brass Co., Waterbury, Conn.
Armco Steel Corp., Middletown, O. (Stainless steel)
Bethlehem Steel Co., Bethlehem, Pa.
Byers Co., A. M., Pittsburgh, Pa. (Angles, bars)
Chase Brass & Copper Co., Inc., Waterbury, Conn. (Angles, bars, channels and tees)
Chicago Metal Mfg. Co., Chicago, Ill.
Dahlstrom Mfg. Corp., Jamestown, N. Y.
Day Co., Minneapolis, Minn. (Angle rings)
Goergen-Mackwirth Engineering Co., Buffalo, N. Y. (Angle rings)
Harvey Aluminum, Torrance, Calif.
Inland Steel Co., Chicago, Ill.

International Steel Co., Evansville, Ind.
 Jessop Steel Co., Washington, Pa.
 Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 Kirk & Blum Mfg. Co., Cincinnati, O.
 Laclede Steel Co., St. Louis, Mo.
 National Metal Fabricators, Chicago, Ill.
 Penn Metal Co., Inc., New York, N. Y.
 Republic Steel Corp., Cleveland, Ohio.
 Revere Copper & Brass Inc., New York, N. Y.
 Reynolds Metals Co., Richmond, Va.
 Tennessee Coal & Iron Div., U. S. Steel Corp., Fairfield, Ala.
 United States Steel Corp., Pittsburgh, Pa.
 Youngstown Sheet & Tube Co., Youngstown, Ohio.

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AWNINGS, SHEET METAL

Air Control Products, Inc., Coopersville, Mich.
 Brisk Metal Products Div., Brisk Waterproofing Co., Ridgefield, N. J.
 KoolVent Metal Awning Corp. of America, Pittsburgh, Pa.
 Mapes Industries, Inc., Lincoln, Nebr.
 Nelson Industries, Pittsburgh, Pa. (Aluminum)
 Season-all, Indiana, Pa. (Aluminum)
 Wagner Awning & Mfg. Co., Cleveland, Ohio.

BACK DRAFT DAMPERS

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BAFFLES, COMBUSTION CHAMBER

Barclay, Inc., Robt., Chicago, Ill.
 Boston Machine Works Co., Lynn, Mass.
 Harvey, Inc., Sid, Valley Stream, N. Y.
 Higgins Metal Products Co., The, Swanton, O.
 Home Heating and Cooling Inc., Passaic, N. J.

Insulation & Refractories Co., Webster, N. Y.
 Iron-Hide Sales Co., Matawan, N. J.
 Oil Equipment Mfg. Co., New Haven, Conn.
 Quigley Co., Inc., New York, N. Y.
 Refractory & Insulation Corp., New York, N. Y.
 Rex Roto Corp., Walled Lake, Mich.
 Robinson Insulation Co., Great Falls, Mont.
 S. O. S. Products Co., Inc., Brooklyn, N. Y.
 Stark & Co., H. W., Ann Arbor, Mich.
 Vape-O-Plate Sales Corp., Janesville, Wis.
 Zeh Co., Inc., Passaic, N. J.

BAGS, DUST

Bemis Bro. Bag Co., St. Louis, Mo.
 Cerf Bros. Bag Co., Inc., St. Louis, Mo.
 Day Co., Minneapolis, Minn.
 Master-Craft Industries, Inc., Garfield, N. J.
 Modern Dust Bag Co. Inc., West Haverstraw, N. Y.
 Raybestos-Manhattan, Inc., Manheim, Pa.
 Wagner Awning & Mfg. Co., Cleveland, Ohio.

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Bear Mfg. Co., Rock Island, Ill.
 Cosa Corp., New York, N. Y.
 Gisholt Machine Co., Madison, Wis.

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Nixalite Co. of America, Rock Island, Ill. (Stainless steel)

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American Sisalkraft Corp., Attleboro, Mass.
 Bird & Son, Inc., East Walpole, Mass.
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 Delta Co., The, Chicago, Ill.
 Dow Chemical Co., Midland, Mich.
 Glas-Kraft, Inc., Slatersville, R. I.
 Lexsuo, Inc., Solon, O.
 Ludlow Papers, A Division of Ludlow Corp., Needham Heights, Mass.
 Meadows, Inc., W. R., Elgin, Ill.
 National Mfg. Corp., Tonawanda, N. Y.
 Richkraft Co., The, Chicago, Ill.
 Wasco Products, Inc., Cambridge, Mass.

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BASEBOARD REGISTERS

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BASES, VIBRATION ISOLATING, PAD TYPE

American Felt Co., Glenville, Conn.
 Barry Controls Div. of Barrywright Corp., Watertown, Mass.
 Celotex Corp., Chicago, Ill.
 Felters Co., Inc., Boston, Mass.
 Firestone Industries Products Co., Akron, O.

General Tire & Rubber Co., Industrial Products Div., Wabash, Ind.
 Goodrich Co., B. F., Sponge Products, Shelton, Conn.
 Goodrich Industrial Products Co., B. F. Akron, O.
 Johns-Manville, New York, N. Y.
 Korfund Co., Inc., Westbury, L. I., N. Y.
 MB Electronics, A Div. of Textron Electronics, Inc., New Haven, Conn.
 Mundet Cork Corp., Brooklyn, N. Y.
 National Cork Co., Englewood, N. J.
 Quimby & Co., Chester, N. J.
 Raybestos-Manhattan, Inc., Passaic, N. J.
 United Cork Cos., Kearny, N. J.
 United States Rubber Co., New York, N. Y.
 Vibration Mountings and Controls Inc., Corona, N. Y.
 Wagner Awning & Mfg. Co., Cleveland, Ohio.
 Western Felt Works, Chicago, Ill.

BASES, VIBRATION ISOLATING, SPRING TYPE

Barry Controls Div. of Barrywright Corp., Watertown, Mass.
 Korfund Co., Westbury, L. I., N. Y.
 Lord Mfg. Co., Erie, Pa.
 Robinson Technical Products, Inc., Teterboro, N. J.
 Vibration Eliminator Co., Long Island City, N. Y.
 Vibration Mountings and Controls Inc., Corona, N. Y.

BATHS, TINNING

Division Lead Co., Summit, Ill.
 Farrelloy Co., Philadelphia, Pa.

BEADERS

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BEAMS

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BEARINGS, PILLOW BLOCK

Air Controls, Inc., Div. Cleveland Heater Co., Cleveland, Ohio
 Browning Mfg. Co., Inc., Maysville, Ky.
 Chain Belt Co., Milwaukee, Wis.
 Chicago Die Casting Mfg. Co., Chicago, Ill.
 Congress Drives Div., Tann Corp., Detroit, Mich.
 Dodge Mfg. Corp., Mishawaka, Ind.
 Fafnir Bearing Co., The, New Britain, Conn.
 Freed Products Co., Moline, Ill.
 Goldens' Foundry & Machine Co., Columbus, Ga.
 Hoover Ball & Bearing Co., Ann Arbor, Mich.
 Jones Machinery Div., Hewitt-Robins Inc., Chicago, Ill.
 Lau Blower Co., Dayton, Ohio.
 Link-Belt Co., Chicago, Ill.
 Norma-Hoffmann Bearing Corp., Stamford, Conn.
 Plymouth Industries, Inc., Plymouth, Ind.
 Randall Graphite Bearings, Inc., Chicago, Ill.
 Royersford Foundry & Machine Co., Royersford, Pa.
 Seco-Lite Mfg. Co., St. Louis, Mo.
 Shafer Bearing Div., Chain Belt Co., Downers Grove, Ill.
 SKF Industries, Inc., Philadelphia, Pa.
 Stephens-Adamson Mfg. Co., Aurora, Ill.
 Triangle Mfg. Co., Oshkosh, Wis.
 Vernco Corp., Columbus, Ind.
 Wood's Sons Co., T. B., Chambersburg, Pa.

BELTS, V

American Pulley Co., Philadelphia, Pa.
 Browning Mfg. Co., Inc., Maysville, Ky.
 Congress Drives Div., Tann Corp., Detroit, Mich.
 Dayton Industrial Products Co., Melrose Park, Ill.
 Dodge Mfg. Corp., Mishawaka, Ind.
 Durkee-Atwood Co., Minneapolis, Minn.
 Firestone Industrial Products Co., Akron, O.
 Gates Rubber Co., Denver, Colo.
 Goodrich Industrial Products Co., B. F., Akron, Ohio.
 Goodyear Tire & Rubber Co., Akron, Ohio.
 Jones Machinery Div., Hewitt-Robins Inc., Chicago, Ill.
 Lovejoy Flexible Coupling Co., Chicago, Ill.

Manheim Mfg. & Belting Co., Manheim, Pa.
 Maurey Mfg. Corp., Chicago, Ill.
 Raybestos-Manhattan, Inc., Passaic, N. J.
 Republic Rubber Div., Lee Rubber & Tire Corp., Youngstown, Ohio.
 Thermoid Div., H. K. Porter Co., Inc., Trenton, N. J.
 United States Rubber Co., New York, N. Y.
 Wood's Sons Co., T. B., Chambersburg, Pa.
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Aerovent Fan Co., Piqua, Ohio.
 Air Controls, Inc., Div. Cleveland Heater Co., Cleveland, Ohio.
 Airmaster Corp., Chicago, Ill.
 Alloy Propeller Co., Zelienople, Pa.
 American Coolair Corp., Jacksonville, Fla.
 Beetle Plastics Corp., Carl N., Fall River, Mass. (Plastic)
 Berns Air King Corp., Chicago, Ill.
 Bertram Co., Harvey P., Cincinnati, O.
 Broan Mfg. Co., Inc., Hartford, Wis.
 Bronson Fan Mfg. Corp., Los Angeles, Calif.
 C & H Air Conditioning Fan Co., Inc., Atlanta, Ga.
 Chelsea Fan & Blower Co., Inc., Irvington, N. J.
 Chicago Blower Corp., Franklin Park, Ill.
 Dallas Engineering Co., Inc., Dallas, Texas.
 Dana Fan & Blower Corp., Cincinnati, Ohio.
 Dayton Industrial Products Co., Melrose Park, Ill.
 Electrovent Fan & Mfg. Co., Chicago, Ill.
 Frigid, Inc., Brooklyn, N. Y.
 International Engineering, Inc., Dayton, Ohio.
 Kloppenborg Foundry & Fan Co., Davenport, Ia.
 Koppers Co., Inc., Metal Products Div., Baltimore, Md.
 Lakewood Engineering & Mfg. Co., Chicago, Ill.
 Martin Fan & Blower Co., Chicago, Ill.
 Maurey Mfg. Corp., Chicago, Ill.
 Meier Electric, Indianapolis, Ind.
 Morrill Motors, Inc., Fort Wayne, Ind.
 Myers Electric Co., Pittsburgh, Pa.
 Peerless Electric Div., H. K. Porter Co., Inc., Warren, Ohio.
 Revcor Inc., Carpentersville, Ill.
 Rich Fan Mfg. Co., Phil, Houston, Tex.
 Russell Coil Co., Santa Fe Springs, Calif.
 South Bend Air Products, Inc., South Bend, Ind.
 Skinner Heating & Ventilating Co., Inc., St. Louis, Mo.
 Thermal Industries, Indio, Calif.
 Torrington Mfg. Co., Torrington, Conn.
 Vernco Corp., Columbus, Ind.
 West Wind Corp., Seattle, Wash.
 Wind-Way Fan & Ventilator Co., New Orleans, La.

BLADES, SAW, ELECTRIC, PORTABLE

Albertson & Co., Inc., Sioux City, Iowa (Circular)
 Black & Decker Mfg. Co., Towson, Md.
 Cummins Portable Tools, Div. of John Oster Mfg. Co., Milwaukee, Wis.
 Independent Blade Co., Div. Westlund Industries, East Haven, Conn.
 Malco Products, Minneapolis, Minn.
 Millers Falls Co., Greenfield, Mass.
 Misener Mfg. Co., Inc., Syracuse, N. Y.
 Porter-Cable Machine Co., Syracuse, N. Y.

Price & Rutzebeck, Hayward, Calif.
Producers & Distributors, Inc., Allentown, Pa.
Simonds Saw & Steel Co., Fitchburg, Mass. (Circular)
Skil Corp., Chicago, Ill.
Thompson & Sons Co., Henry G., New Haven, Conn. (Hack)
Thor Power Tool Co., Aurora, Ill.

BLADES, SAW, HACK AND BAND

American Saw & Mfg. Co., Inc., Springfield, Mass.
Atkins Saw Div., Borg-Warner Corp., Greenville, Miss.
Capewell Mfg. Co., Hartford, Conn. (Hack)
Clemson Bros., Inc., Middletown, N. Y.
Delta Power Tool Div., Rockwell Mfg. Co., Pittsburgh, Pa.
(Hack and band)
Disston Div., H. K. Porter Co., Inc., Philadelphia, Pa.
Dreier Bros., Inc., Chicago, Ill.
Howes-Woods Co., Cambridge, Mass.
Independent Blade Co., Div. Westlund Industries, East Haven, Conn.
Lockformer Co., Chicago, Ill. (Band)
Malco Products, Minneapolis, Minn.
Mephisto Tool Co., Inc., Hudson, N. Y.
Millers Falls Co., Greenfield, Mass.
Price & Rutzebeck, Hayward, Calif.
Saw-Mor Tool & Blade Co., Chicago, Ill.
Simonds Saw & Steel Co., Fitchburg, Mass.
Spartan Saw Works, Inc., Springfield, Mass.
Tyler Mfg. Co., Inc., Inglewood, Calif.
Wells Mfg. Corp., Three Rivers, Mich. (Band)

BLAST COILS, ELECTRIC

See Heaters, Duct, Electric

BLAST GATES

See Gates, Blast

BLOWER CONTROLS

See Controls, Blower, Speed Changing

BLOWER-FILTER UNITS, WARM AIR FURNACE

Filter and fan only

Air Controls, Inc., Div. Cleveland Heater Co., Cleveland, Ohio
Airfan Engineering Co., Los Angeles, Calif.
American-Standard Air Conditioning Div., New York, N. Y.
Auburn Foundry, Inc., Heating Div., Auburn, Ind.
Bard Mfg. Co., Bryan, O.
Brundage Co., Kalamazoo, Mich.
Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
Crown Home Equipment Co., Philadelphia, Pa.
Fraser & Johnston Co., San Francisco, Calif.
Hall-Neal Furnace Co., Indianapolis, Ind.
Heating Assurance, Inc., Spokane, Wash.
Henry Furnace Co., Medina, Ohio.
International Heater Co., Utica, N. Y.
Lau Blower Co., Dayton, Ohio.
Lennox Industries Inc., Marshalltown, Iowa.
Meyer Furnace Co., Peoria, Ill.
Olsen Mfg. Co., C. A., Elyria, Ohio.
Peerless Electric Div., H. K. Porter Co., Inc., Warren, Ohio.
Premier Furnace Co., Dowagiac, Mich.
Rybolt Heater Co., Ashland, Ohio.
Tuck-Aire Furnace Co., San Francisco, Calif.
Viking Air Products Div. of The Lau Blower Co., Cleveland, O.
Waterman-Waterbury Co., Minneapolis, Minn.
Western Blower Co., Seattle, Wash.
Zick Sheet Metal Works, Dearborn, Mich.

BLOWER HOUSINGS

See Housings, Blower and Fan

BLOWER WHEELS

See Wheels, Blower

BLOWERS, DUCT, CENTRIFUGAL

(With Filter Frames)

American Air Filter Co., Inc., Louisville, Ky.
Brundage Co., Kalamazoo, Mich.
Corite-Reynolds Corp., Des Plaines, Ill.
Ilg Electric Ventilating Co., Chicago, Ill.
Muncie Gear Works, Cordele, Ga.
New York Blower Co., Chicago, Ill.
Phelps Mfg. Co., Little Rock, Ark.
Viking Air Products Div. of The Lau Blower Co., Cleveland, O.

BLOWERS, EXHAUSTERS (METAL AND PLASTIC)

Airfan Engineering Co., Los Angeles, Calif.
Aladdin Heating Corp., San Leandro, Calif.
American Agile Corp., Bedford, O. (Plastic)
Ammerman Co., Inc., Stillwater, Minn.
Babbins, Inc., New York, N. Y.
Barry Blower Co., Minneapolis, Minn.
Bayley Blower Co., Milwaukee, Wis.
Brundage Co., Kalamazoo, Mich.
Buffalo Forge Co., N. Y.
Century Fan & Ventilator Co., Inc., Stamford, Conn.
Champion Blower & Forge Co., Lancaster, Pa.
Chelsea Fan & Blower Co., Inc., Plainfield, N. J.
Chicago Blower Corp., Franklin Park, Ill. (Metal and plastic)
Clarage Fan Co., Kalamazoo, Mich.
Commercialaire Corp. of America, Brooklyn, N. Y. (Metal)
Corite-Reynolds Corp., Des Plaines, Ill. (Plastic and plastic coated)
Day Co., Minneapolis, Minn.
Du Verre, Inc., Buffalo, N. Y. (Plastic)
Electrovent Fan & Mfg. Co., Chicago, Ill.
Engwald Corp., The, Inwood, L.I., N.Y.
Frigid, Inc., Brooklyn, N. Y.
Garden City Fan & Blower Co., Niles, Mich.
General Blower Co., Subsidiary of Ilg Electric Ventilating Co., Morton Grove, Ill.
Haveg Corp., Wilmington, Del. (Plastic)
Heil Process Equipment Corp., Cleveland, O.
Ilg Electric Ventilating Co., Chicago, Ill.
Industrial Plastic Fabricators, Inc., Norwood, Mass.
Kice Metal Products Co., Wichita, Kans.
Martin Fan & Blower Co., Chicago, Ill.
Meyer & Sons, Inc., W. W., Skokie, Ill.
Milo Mfg. Co., Elizabeth, N. J. (Plastic)
Nelson Products, Herman, American Air Filter Co., Inc., Louisville, Ky.
New York Blower Co., Chicago, Ill.
Northern Blower Co., Cleveland, Ohio.
Peerless Electric Div., H. K. Porter Co., Inc., Warren, O.
Phelps Mfg. Co., Little Rock, Ark.
Puhl & Hepper Mfg. Co., Inc., St. Louis, Mo.
Redmond Co., Inc., Subsidiary of Controls Co. of America, Owosso, Mich.
Rees Blow Pipe Mfg. Co., Berkeley, Calif.
S & C Mfg. Co., Cincinnati, O.
Seelye Craftsmen, Minneapolis, Minn. (Plastic)
Skinner Heating & Ventilating Co. Div. Young Sales Corp., St. Louis, Mo.
Spencer Turbine Co., Hartford, Conn.
Standard Electric Mfg. Co., Inc., West Berlin, N.J.
U.S. Air Conditioning Corp., Delaware, O.
Utility Fan Corp., Div. of Utility Appliance Corp., Los Angeles, Calif.
Westinghouse Electric Corp., Sturtevant Div., Hyde Park, Boston, Mass.
Wing Mfg. Div., L. J., Aero Supply Mfg. Co. Inc., Linden, N. J.

BLOWERS, FORCED DRAFT, ASH PIT

Aladdin Heating Corp., San Leandro, Calif.
American-Standard Industrial Div., Detroit, Mich.
Babbins, Inc., New York, N. Y.
Bayley Blower Co., Milwaukee, Wis.
Buffalo Forge Co., Buffalo, N. Y.
Champion Blower & Forge Co., Lancaster, Pa.
Chicago Blower Corp., Franklin Park, Ill.
Clarage Fan Co., Kalamazoo, Mich.
Coppus Engineering Corp., Worcester, Mass.
General Blower Co., Subsidiary of Ilg Electric Ventilating Co., Morton Grove, Ill.

General Blower Co., Inc., Philadelphia, Pa.
 International Engineering, Inc., Dayton, Ohio.
 Joy Mfg. Co., Pittsburgh, Pa.
 Kol-Master Corp., Oregon, Ill.
 Lehigh Fan & Blower Div., Fuller Co., Catasauqua, Pa.
 Martin Fan & Blower Co., Chicago, Ill.
 Robinson Ventilating Co., Zelenople, Pa.
 Small Motors, Inc., Chicago, Ill.
 Standard Electric Mfg. Co., Inc., West Berlin, N.J.
 Westinghouse Electric Corp., Sturtevant Div., Boston, Mass.
 Wing Mfg. Div., L. J., Aero Supply Mfg. Co. Inc., Linden, N. J.

BLOWERS, FURNACE AND AIR CONDITIONING UNIT, CENTRIFUGAL

Air Conditioning Engineering Co., Cambridge, Mass.
 Air Controls Inc., Div. Cleveland Heater Co., Cleveland, Ohio.
 Airfan Engineering Co., Los Angeles, Calif.
 Aladdin Heating Corp., San Leandro, Calif.
 Alloy Propeller Co., Zelenople, Pa.
 American Air Filter Co., Inc., Louisville, Ky.
 American Foundry & Furnace Co., Bloomington, Ill.
 American Furnace Co., St. Louis, Mo.
 American-Standard Industrial Div., Detroit, Mich.
 Auburn Burner Co., Edgerton, O.
 Barry Blower Co., Minneapolis, Minn.
 Benson Mfg. Co., Kansas City, Mo.
 Brundage Co., Kalamazoo, Mich.
 Buffalo Forge Co., Buffalo, N. Y.
 Campbell Heating Co., Des Moines, Iowa.
 Century Fan & Ventilator Co., Stamford, Conn.
 Champion Blower & Forge Co., Lancaster, Pa.
 Chicago Blower Corp., Franklin Park, Ill.
 Clarage Fan Co., Kalamazoo, Mich.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Freed Products Co., Moline, Ill.
 Frigid, Inc., Brooklyn, N. Y.
 Furblo Co., Hermansville, Mich.
 General Blower Co., Subsidiary of Ilg Electric Ventilating Co., Morton Grove, Ill.
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Ilg Electric Ventilating Co., Chicago, Ill.
 Lau Blower Co., Dayton, Ohio.
 Lennox Industries Inc., Marshalltown, Iowa.
 Magic Aire Div., United Electric Co., Wichita Falls, Tex.
 Majestic Co., Inc., Huntington, Ind.
 Martin Fan & Blower Co., Chicago, Ill.
 Mauer Engineering, Evanston, Ill.
 Meyer Furnace Co., Peoria, Ill.
 Morrison Products, Inc., Cleveland, Ohio.
 Mountain States Equipment Co., Denver, Colo.
 Peerless Electric Div., H. K. Porter Co., Inc., Warren, Ohio.
 Premier Furnace Co., Dowagiac, Mich.
 Skinner Heating & Ventilating Co. Div. Young Sales Corp., St. Louis, Mo.
 Standard Electric Mfg. Co., Inc., West Berlin, N. J.
 Torrington Mfg. Co., Torrington, Conn.
 Tuck-Aire Furnace Co., San Francisco, Calif.
 U.S. Air Conditioning Corp., Delaware, O.
 Utility Fan Corp., Div. of Utility Appliance Corp., Los Angeles, Calif.
 Viking Air Products Div. of The Lau Blower Co., Cleveland, O.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Western Blower Co., Seattle, Wash.
 Westinghouse Electric Corp., Sturtevant Div., Boston, Mass.
 Zick Sheet Metal Works, Dearborn, Mich.

BLOWERS, FURNACE AND AIR CONDITIONING UNIT, CENTRIFUGAL, WITH MODULATION CONTROL

Morrison Products, Inc., Cleveland, O.
 Perfection Div., Hupp Corp., Cleveland, O.
 Viking Air Products Div. of The Lau Blower Co., Cleveland, O.

BLOWERS, INDUCED DRAFT, SMOKE PIPE

Aladdin Heating Corp., San Leandro, Calif.
 American Foundry & Furnace Co., Bloomington, Ill.
 American-Standard Industrial Div., Detroit, Mich.
 Ammerman Co., Inc., Stillwater, Minn.
 Babbitt, Inc., New York, N. Y.

Bayley Blower Co., Milwaukee, Wis.
 Century Fan & Ventilator Co., Inc., Stamford, Conn.
 Chicago Blower Corp., Franklin Park, Ill.
 DeBothezat Fans Div., American Machine and Metals, Inc., Moline, Ill.
 Garden City Fan & Blower Co., Niles, Mich.
 General Blower Co., Subsidiary of Ilg Electric Ventilating Co., Morton Grove, Ill.
 General Blower Co., Inc., Philadelphia, Pa.
 Kisco Boiler & Engineering Co., St. Louis, Mo.
 Lehigh Fan & Blower Div., Fuller Co., Catasauqua, Pa.
 Little Burner Co., Inc., H. C., San Rafael, Calif.
 Martin Fan & Blower Co., Chicago, Ill.
 Overhead Heaters, Inc., Detroit, Mich.
 Preferred Utilities Mfg. Corp., New York, N. Y.
 Small Motors, Inc., Chicago, Ill.
 Therm Oil Burner Co., Seattle, Wash.
 Tjernlund Mfg. Co., St. Paul, Minn.
 Westinghouse Electric Corp., Sturtevant Div., Hyde Park, Boston, Mass.
 Whitty Co., Inc., Boston, Mass.
 Wing Mfg. Div., L. J., Aero Supply Mfg. Co. Inc., Linden, N. J.

BLOWERS, MATERIAL HANDLING

Airfan Engineering Co., Los Angeles, Calif.
 American Air Filter Co., Inc., Louisville, Ky.
 American Blower Corp., Detroit, Mich.
 Barry Blower Co., Minneapolis, Minn.
 Bayley Blower Co., Milwaukee, Wis.
 Buffalo Forge Co., Buffalo, N. Y.
 Carolina Blower Co., Inc., Greensboro, N. C.
 Champion Blower & Forge Co., Lancaster, Pa.
 Chicago Blower Corp., Franklin Park, Ill.
 Clarage Fan Co., Kalamazoo, Mich.
 Day Co., Minneapolis, Minn.
 Garden City Fan & Blower Co., Niles, Mich.
 General Blower Co., Subsidiary of Ilg Electric Ventilating Co., Morton Grove, Ill.
 Ilg Electric Ventilating Co., Chicago, Ill.
 Kice Metal Products Co., Wichita, Kans.
 Martin Fan & Blower Co., Chicago, Ill.
 Nelson Products, Herman, American Air Filter Co., Inc., Louisville, Ky.
 New York Blower Co., Chicago, Ill.
 Phelps Mfg. Co., Little Rock, Ark.
 Robinson Ventilating Co., Zelenople, Pa.
 Spencer Turbine Co., Hartford, Conn.
 Standard Electric Mfg. Co., Inc., West Berlin, N. J.
 Trane Co., The, La Crosse, Wis.
 Westinghouse Electric Corp., Sturtevant Div., Boston, Mass.

BLOWING MACHINES, INSULATION

Babbitt, Inc., New York, N. Y.
 Hagan Mfg. Co., Delphos, O.
 Insulating Equipment Co., Chicago, Ill.
 Molloy Machine Corp., Chicago, Ill.
 Rotary Compressor Blower Co., Grove City, Pa.
 Universal Insulating Machine Co., Winter Haven, Fla.

BLOW PIPE ACCESSORIES

Elbows, Flanges, Hangers, Hoods and Sweeps, Joints, Rings, Tubing

Barcafer Mfg. Co., Salina, Kans.
 Carolina Blower Co., Inc., Greensboro, N. C.
 Chicago Metal Mfg. Co., Chicago, Ill.
 Day Co., Minneapolis, Minn.
 DeVilbiss Co., The, Metal Fabricators Div., Detroit, Mich.
 Dustender Co., Ann Arbor, Mich. (Mist separator)
 Goergen-Mackworth Engineering Co., Buffalo, N. Y. (Pipe)
 Goethel Sheet Metal Works, Inc., Alfred, Milwaukee, Wis.
 Kice Metal Products Co., Wichita, Kans.
 Kirk & Blum Mfg. Co., Cincinnati, Ohio. (Adjustable buffing hoods).
 Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif.
 Lumm.. A. H., Toledo, O.
 Lyman Sheet Metal Co., Inc., Southampton, Mass.
 National Metal Fabricators, Chicago, Ill. (Flanges)
 Northern Blower Co., Cleveland, Ohio.
 Penn Supply & Metal Corp., Philadelphia, Pa.
 Puhl & Hepper Mfg. Co., Inc., St. Louis, Mo.

Skinner Heating & Ventilating Co. Div. Young Sales Corp., St. Louis, Mo.
 Spincraft, Inc., Milwaukee, Wis.
 Torit Mfg. Co., St. Paul, Minn. (Filter bags and door fasteners)
 United Sheet Metal Co., Inc., Columbus, O.
 Wer-Coy Fabrication Co., Detroit, Mich. (Elbows)
 Western Blower Co., Seattle, Wash.
 Winkler & Sons, Inc., A. E., Milwaukee, Wis.
 Young & Bertke Co., Cincinnati, Ohio.

BLOW PIPE COLLECTORS

See Collectors, Dust

BLOW PIPE EQUIPMENT

See Gates, Blast; Collectors, Dust

BOARDS AND PANELS, CONTROL (FOR ELECTRIC HEATING SYSTEMS)

General Controls Co., Glendale, Calif.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Wilson Electric Furnaces, Rossville, Ga.

BOARDS AND PANELS, CONTROL (FOR WINTER, SUMMER AND YEAR 'ROUND AIR CONDITIONING SYSTEMS)

Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Continental Electric Equipment Co., Cincinnati, O.
 General Controls Co., Glendale, Calif.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 White-Rodgers Co., St. Louis, Mo.

BODIES AND ACCESSORIES, TRUCK

Alf-Herman Corp., St. Louis, Mo.
 Allegheny Body Co., Inc., Philadelphia, Pa. (Utility body)
 Anthony Co., Streator, Ill. (Elevating tail gate)
 Boyertown Auto Body Works, Inc., Boyertown, Pa. (City van)
 Chevrolet Motor Div., General Motors Corp., Detroit, Mich.
 Dodge Div., Chrysler Corp., Detroit, Mich.
 International Harvester Co., Motor Truck Div., Chicago, Ill.
 Karyall Body, Inc., Cleveland, O.
 McCabe Powers Auto Body Co., St. Louis, Mo.
 Mid West Body & Mfg. Co., Paris, Ill. (Manually operated elevating tail gate)
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Morysville Body Works, Inc., Boyertown, Pa. (Furnace cleaning)
 Reading Body Works, Inc., Reading, Pa. (Service bodies)
 Stahl Metal Products, Cleveland, O.
 Utility Body Co., Oakland, Calif. (Service)
 Watson Co., H. S., Emeryville, Calif. (Tailgate)
 York-Hoover Corp., Body Div., York, Pa.

BOLTS, EXPANSION

Arro Expansion Bolt Co., Marion, O.
 Brush Nail Expansion Bolt Co., Greenwich, Conn.
 Bulldog Div., Gregory Industries, Inc., Lorain, O.
 Chase Brass & Copper Co., Inc., Waterbury, Conn.
 Chicago Expansion Bolt Co., Chicago, Ill.
 Holub Industries, Inc., Sycamore, Ill.
 Kirel, Inc., Kingston, N. Y.
 National Lead Co., New York, N. Y.
 Paine Co., Addison, Ill.
 Phillips Drill Co., Michigan City, Ind.
 Rawlplug Co., Inc., New Rochelle, N. Y.
 Republic Steel Corp., Cleveland, O.
 Star Expansion Bolt Co., New York, N. Y.
 U. S. Expansion Bolt Co., York, Pa.
 Universal Fastenings Corp., Farmingdale, L.I., N.Y.

BOLTS, TOGGLE

Arro Expansion Bolt Co., Marion, O.
 Bulldog Div., Gregory Industries, Inc., Lorain, O.
 Chase Brass & Copper Co., Inc., Waterbury, Conn.
 Chicago Expansion Bolt Co., Chicago, Ill.
 Holub Industries, Inc., Sycamore, Ill.
 Paine Co., Addison, Ill.
 Rawlplug Co., Inc., New Rochelle, N. Y.
 Star Expansion Bolt Co., New York, N. Y.
 U. S. Expansion Bolt Co., York, Pa.
 Universal Fastenings Corp., Farmingdale, L.I., N.Y.

BOMBS, CANDLES AND GUNS, SMOKE

For Testing Air Movement

Air Control Products, Inc., Coopersville, Mich.
 Design Engineers, Rockford, Ill.
 Hill & Co., E. Vernon, Lake Geneva, Wis.
 Harvell-Kilgore Corp., Bolivar, Tenn.
 Schiller Mfg. Co., Detroit, Mich.
 Unexcelled Chemical Corp., New York, N. Y.

BOOSTER DRAFT UNITS

See Units, Power Draft

BOOSTER FANS

See Fans, Propeller Type, Booster

BOOSTER TRANSFORMERS

See Transformers, Boost and Buck

BOOTS FOR REGISTERS

See Duct Fittings

BRAKES

See Machines, Brakes

BRUSHES, ACID

Ace Wire Brush Co., Brooklyn, N. Y.
 Allen Co., Inc., L. B., Schiller Park, Ill.
 Division Lead Co., Summit, Ill.
 Farrelloy Co., Philadelphia, Pa.
 Johnson Mfg. Co., Inc., Mount Vernon, Ia.
 Lukens Metal Co., Thos. F., Philadelphia, Pa.
 Milwaukee Brush Mfg. Co., Milwaukee, Wis.
 Osborn Mfg. Co., Cleveland, Ohio.
 Royal-Apex Mfg. Co., Inc., Brooklyn, N. Y.
 Schaefer Brush Mfg. Co., Milwaukee, Wis.
 Tinit Mfg. Co., Inc., Denver, Colo.

BRUSHES FOR COPPER FITTING CLEANING

Ace Wire Brush Co., Brooklyn, N. Y.
 Chase Brass & Copper Co., Inc., Waterbury, Conn.
 Mueller Brass Co., Port Huron, Mich.
 Schaefer Brush Mfg. Co., Milwaukee, Wis.
 Worcester Brush & Scraper Co., Div. Mason Worcester Brush Co., Worcester, Mass.

BRUSHES, FURNACE, FLUE

Ace Wire Brush Co., Brooklyn, N. Y.
 Harvey, Inc., Sid, Valley Stream, N. Y.
 Milwaukee Brush Mfg. Co., Milwaukee, Wis.
 Osborn Mfg. Co., Cleveland, Ohio.
 Pilley Brush Co., Fort Madison, Ia.
 Schaefer Brush Mfg. Co., Milwaukee, Wis.
 Worcester Brush & Scraper Co., Div. Mason Worcester Brush Co., Worcester, Mass.

BUFFERS, GRINDERS, POLISHERS, AND SANDERS, ELECTRIC

Albertson & Co., Inc., Sioux City, Iowa.
American Lincoln Corp., Toledo, O.
Baldor Electric Co., St. Louis, Mo.
Black & Decker Mfg. Co., Towson, Md.
Brown-Brockmeyer Co., Inc., Dayton, Ohio.
Chicago Pneumatic Tool Co., New York, N. Y.
Cummins Portable Tools, Div. of John Oster Mfg. Co., Milwaukee, Wis.
Delta Power Tool Div., Rockwell Mfg. Co., Pittsburgh, Pa.
Detroit Surfacing Machine Co., Detroit, Mich.
Hammond Machinery Builders, Inc., Kalamazoo, Mich.
Haskins Co., R. G., Chicago, Ill.
Ingersoll-Rand Co., New York, N. Y.
Krieg, Inc., Victor J., New York, N. Y.
L'Hommedieu & Sons Co., Chas. F., Chicago, Ill. (Polishers)
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Corp., Milwaukee, Wis.
Portable Electric Tools, Inc., Geneva, Ill.
Porter-Cable Machine Co., Syracuse, N. Y.
Remington Arms Co., Inc., Bridgeport, Conn.
Reynolds Electric Co., River Grove, Ill.
Rotor Tool Co., Cleveland, Ohio.
Skil Corporation, Chicago, Ill.
Small Motors, Inc., Chicago, Ill.
Snap-on Tools Corp., Kenosha, Wis.
Speedway Mfg. Co., Div. of Thor Power Tool Co., LaGrange Park, Ill.
Stanley Electric Tools Div. of The Stanley Works, New Britain, Conn.
Stow Mfg. Co., Binghamton, N. Y.
Strand Flexible Shaft, Inc., N. A., Chicago, Ill.
Thor Power Tool Co., Aurora, Ill.
U. S. Electrical Motors, Inc., Los Angeles, Calif.
Valley Electric Corp., St. Louis, Mo.
Wyzenbeek & Staff, Inc., Chicago, Ill.

BUFFERS, GRINDERS, POLISHERS AND SANDERS, PNEUMATIC

Chicago Pneumatic Tool Co., New York, N. Y.
Gardner-Denver Co., Quincy, Ill.
Master Power Corp., Subsidiary of Black & Decker Mfg. Co., Solon, O.
Rotor Tool Co., Cleveland, Ohio.
Skil Corporation, Chicago, Ill.
Thor Power Tool Co., Aurora, Ill.

BURNER PARTS, GAS

Albertson & Co., Inc., Sioux City, Ia.
Auburn Spark Plug Co., Inc., Auburn, N. Y. (Igniters)
Barber Mfg. Co., Cleveland, O. (Jet burner units and jets)
Fieser Co., F. J., New York, N. Y. (Inspirators, drilled pipe burners, ribbon burners)
Harvey, Inc., Sid., Valley Stream, N. Y.
Nu-Way Corp., The, Rock Island, Ill. (Venturi housings)
Robinson Tube Fabricating Co., Conway, Ark. (Venturi tubes)
Watervliet Tool Co., Inc., Albany, N. Y.

BURNER PARTS, OIL

Auburn Spark Plug Co., Inc., Auburn, N. Y. (Electrodes)
Bell Engineering & Supply Co., Three Rivers, Mich. (Flexible oil lines)
Boston Machine Works Co., Lynn, Mass. (Combustion heads, air tubes)
Burn-Rite Products Co., Yonkers, N. Y.
Carlin Co., The, Wethersfield, Conn.
Chicago Screw Co., Div. Standard Screw Co., Bellwood, Ill. (Nozzle adapter)
Crown Engineering Corp., Keyport, N. J. (Electrodes, ignition terminals)
Delavan Mfg. Co., West Des Moines, Ia. (Nozzle adapters, nozzle strainers, filters)
Dielectric Products Co., Inc., Jersey City, N. J. (Electrodes)
Eddington Metal Specialty Co., Eddington, Pa. (Combustion heads, nozzle filters, air cones and stabilizers)
Electrical Components Co., Div. of National Ceramic Co., Trenton, N. J. (Electrodes)
Gas & Oil Industry Laboratories, Inc., Irvington, N. J. (Valves)

Guardian Products Corp., Michigan City, Ind.
Harvey, Inc., Sid., Valley Stream, N. Y. (Electrodes, fuel unit bellows)
Hays Mfg. Co., Erie, Pa. (Valve fittings)
HomeEase Products Div. of Bogue Electric Mfg. Co., Paterson, N. J. (Electrodes)
Hydrovalve Co., Brooklyn, N. Y. (Electrodes)
Lord Mfg. Co., Erie, Pa. (Flexible shaft couplings)
Lovejoy Flexible Coupling Co., Chicago, Ill. (Flexible shaft couplings)
Modern Die & Machine Co., Boston, Mass. (Combustion head)
Monarch Mfg. Works, Inc., Philadelphia, Pa. (Combustion heads, nozzles, strainers)
Morse-Smith-Morse Co., The, Watertown, Mass. (Valves)
Mutual Mfg. Co., Flushing, N. Y. (Check valves)
Nu-Way Corp., The, Rock Island, Ill. (Nozzle and electrode assembly)
Premier Furnace Co., Dowagiac, Mich.
Quiet Automatic Burner Corp., Newark, N. J. (Combustion head)
Quiet-Heat Div., Burner Mfg. Corp. of America, New York, N. Y.
Service and Supply Co., Appleton, Wis. (Transformer brackets)
Steinen Mfg. Co., Wm., Newark, N. J. (Electrodes, adapters, strainers, nozzle filters)
Sundstrand Engineering Co., Rock Island, Ill. (Nozzle and electrode assembly)
Webster Electric Co., Racine, Wis. (Nozzle valve)

BURNERS, GAS, RESIDENTIAL

Adams Mfg. Co., Cleveland, Ohio.
American Furnace Co., St. Louis, Mo.
American-Standard Air Conditioning Div., New York, N. Y.
Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind.
Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, Ohio.
Aston Products, Inc., Warren, Mich.
Auburn Burner Co., Edgerton, O.
Auburn Foundry, Inc., Heating Div., Auburn, Ind.
Autogas Co., Bellwood, Ill.
Banner Burner Co., Youngstown, Ohio.
Barber Mfg. Co., Cleveland, O.
Bard Mfg. Co., Bryan, Ohio.
Blue-Ray Gas Burner Co., Detroit, Mich.
Bonair Div., Peerless Products Co., Philadelphia, Pa.
Bowlby Air Devices Co., Wichita, Kans.
Bryant Industrial Products Corp., Cleveland, O.
Bryant Mfg. Co., Indianapolis, Ind.
Carlin Co., The, Wethersfield, Conn.
Century Engineering Corp., Cedar Rapids, Iowa.
Columbia Burner Co., Toledo, Ohio.
Consolidated Industries, Inc., Lafayette, Ind.
Cox Mfg. Co., Ridgeville, Ind.
Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
Dalzen Tool & Mfg. Co., Detroit, Mich.
Delco Appliance Div. General Motors Corp., Rochester, N. Y.
Denver Fire Clay Co., Denver, Colo.
Donley Bros. Co., Cleveland, O.
Dornback Furnace & Foundry Co., Eastlake, O.
Dowagiac Steel Furnace Co., Dowagiac, Mich.
Downing Steel Products Co., Kettering, O.
F & E Mfg. Co., Fremont, Calif.
Falz Mfg. Co., St. Paul, Minn.
Floral City Heater Div., United States Air Conditioning Corp., Monroe, Mich.
Geisel Mfg. Inc., Elyria, Ohio.
Gold Top Heating, Inc., Butte, Mont.
Green Colonial Inc., Des Moines, Ia.
H-F Products, Louisville, Ohio.
Handley-Brown Co., Jackson, Mich.
Hart Heat Div., Avery Farm Machinery Co., Peoria, Ill.
Hastings Air Conditioning Co., Inc., Hastings, Nebr.
Hastings Air Control, Inc., Omaha, Nebr.
Hayward Gas Burner Div., Algonac Tool & Die Co., Algonac, Mich.
Heil-Quaker Corp., Nashville, Tenn.
Henry Furnace Co., Medina, Ohio.
Hinding Co., St. Paul, Minn.
Illinois Iron & Bolt Co., Carpentersville, Ill.
International Heater Co., Utica, N. Y.
Iron Fireman Mfg. Co., Cleveland, Ohio.
Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
Jet Burner Inc., Hutchinson, Kans.

Ken-Joy Gas Burner Co., Milwaukee, Wis.
 Killam Gas Burner Co., Denver, Colo.
 Laharco Industries, Inc., Minneapolis, Minn.
 Lennox Industries Inc., Marshalltown, Iowa.
 Liberty Combustion Corp., Syracuse, N. Y.
 Lundt, Inc., Ernest C., Little Falls, N. J.
 Magic Servant Products Co., Detroit, Mich.
 Majestic Co., Inc., Huntington, Ind.
 Martin Co., Inc., J. O., San Francisco, Calif.
 Martin Stamping & Stove Co., Huntsville, Ala.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 McDonald Mfg. Co., A. Y., Dubuque, Iowa.
 Mettler Co., Inc., The, Div. of Eclipse Fuel Engineering Co., Rockford, Ill.
 Metzger Machine & Engineering Co., Thermoflo Div., Milwaukee, Wis.
 Meyer Furnace Co., Peoria, Ill.
 Mid-Continent Metal Products Co., Chicago, Ill.
 Modern Controls Corp., Centerline, Mich.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Mueller Climatrol, Milwaukee, Wis.
 Muncie Burner Mfg. Co., Romulus, Mich.
 Niagara Motors Corp., Dunkirk, N. Y.
 Norman Products Co., Columbus, Ohio.
 Nu-Way Corp., The, Rock Island, Ill.
 Olsen Mfg. Co., The C. A., Elyria, Ohio
 Patten Co., J. V., Sycamore, Ill.
 Peerless Corp., Indianapolis, Ind.
 Pennsylvania Furnace & Iron Co., Warren, Pa.
 Perfection Div., Hupp Corp., Cleveland, Ohio.
 Power-Flame, Inc., Grandview, Mo.
 Premier Furnace Co., Dowagiac, Mich.
 Queen Products Div., King-Seeley Corp., Albert Lea, Minn.
 Radiant Burners, Inc., Lombard, Ill.
 Ransome Torch & Burner Co., Emeryville, Calif.
 Rapid Heat Corp., Detroit, Mich.
 Rayfield-Staffco Burner Co., Elkhart, Ind.
 Ray Oil Burner Co., San Francisco, Calif.
 Reif-Rexoil, Inc., Buffalo, N. Y.
 Revere Products, Inc., Detroit, Mich.
 Rheem Mfg. Co., Chicago, Ill.
 Roberts-Gordon Appliance Corp., Buffalo, N. Y.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, Ohio.
 Schwab Safe Co., Lafayette, Ind.
 Sheet Metal Mfg. Co., Youngstown, O.
 Silent Automatic Products, Cleveland, O.
 Smith Corp., A. O., Permaglas Div., Kankakee, Ill.
 Sonner Burner Co., Winfield, Kans.
 Standard Fuel Engineering Co., Detroit, Mich.
 Steel City Furnace Corp., Springdale, Pa.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Lebanon, Ind.
 Stratton & Terstege Co., Louisville, Ky.
 Sundstrand Engineering Co., Rock Island, Ill.
 Sunny Sue Burner Co., Syracuse, N. Y.
 Sure Comfort Furnace Co., Forest Park, Ill.
 Synchronous Flame, Inc., Walworth, Wis.
 Syncromatic Corp., Watertown, Wis.
 Temco, Inc., Nashville, Tenn.
 Thermex Engineering Co., Chicago, Ill.
 Thermo-Products, Inc., North Judson, Ind.
 Toridheet Div., Cleveland Steel Products Corp., Cleveland, Ohio
 Triad Products Corp., Chicago, Ill.
 Vacuum Gas Burner Corp., Olean, N. Y.
 Viking Mfg. Corp., Cleveland, O.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Wayne Home Equipment Co., Inc., Fort Wayne, Ind.
 Wesco Furnace Div., Northwest Foundry & Furnace Co., Portland, Ore.
 White-Rodgers Co., St. Louis, Mo.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, Ohio.
 Wisconsin Burners Inc., Madison, Wis.
 York-ShIPLEY, Inc., York, Penn.

BURNERS, GAS-OIL COMBINATION, RESIDENTIAL

Johnson Co., S. T., Philadelphia, Pa. & Oakland, Calif.
 Lundt, Inc., Ernest C., Little Falls, N. J.
 Power-Flame, Inc., Grandview, Mo.
 Quiet Automatic Burner Corp., Newark, N. J.
 Rayfield-Staffco Burner Co., Elkhart, Ind.

Roberts-Gordon Appliance Corp., Buffalo, N. Y.
 Synchronous Flame, Inc., Walworth, Wis.
 Wisconsin Burners Inc., Madison, Wis.

BURNERS, OIL, GRAVITY

(No. 2 Oil)

Benner-Nawman, Inc., Oakland, Calif.
 Boston Machine Works Co., Lynn, Mass.
 Breese Burners, Inc., Sales and Appliance Engineering Div., Milwaukee, Wis.
 Gilmore Burners, Inc., Cleveland, O.
 Kleer-Kleen Mfg. Co., Hayward, Calif.
 Kresky Mfg. Co., Inc., Petaluma, Calif.
 Kresno-Stamm Mfg. Co., Palisades Park, N. J.
 Metro Metal Mfg. Co., Holt, Mich.
 Meyer Furnace Co., Peoria, Ill.
 Rayfield-Staffco Burner Co., Elkhart, Ind.

BURNERS, OIL, HIGH PRESSURE

(No. 2 Oil)

Acme Heat & Power, Inc., Brooklyn, N. Y.
 Acme Oil Burner Co., Inc., Cedar Rapids, Ia.
 Aldrich Co., Wyoming, Ill.
 Allied Federal Industries, Newark, N. J.
 American Furnace Co., St. Louis, Mo.
 American Mohawk Div., Burner Mfg. Corp. of America, New York, N. Y.
 American-Standard Air Conditioning Div., New York, N. Y.
 Anchor Div., Stratton & Terstege Co., Inc., New Albany, Ind.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, O.
 Arrow Foundry Co., Freeport, Ill.
 Auburn Burner Co., Edgerton, O.
 Auburn Foundry, Inc., Heating Div., Auburn, Ind.
 Automatic Burner Corp., Chicago, Ill.
 Bard Mfg. Co., Bryan, O.
 Beckett Corp., R. W., Elyria, O.
 Bethlehem Foundry & Machine Co., Bethlehem, Pa.
 Burn-Rite Products Co., Yonkers, N. Y.
 Carlin Co., The, Wethersfield, Conn.
 Cary Mfg. Co., Waupaca, Wis.
 Century Engineering Corp., Cedar Rapids, Ia.
 Chalmers Oil Burner Co., Minneapolis, Minn.
 Conco Engineering Works, Heating and Air Conditioning Div., Mendota, Ill.
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Crown Home Equipment Co., Philadelphia, Pa.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Dornback Furnace & Foundry Co., Eastlake, O.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 East Coast Co., Boston (Wellesley), Mass.
 Eastern Oil & Equipment Co., Portland, Maine
 Eckhart Mfg. Co., Inc., Union, N. J.
 Eclipse Fuel Engineering Co., Rockford, Ill.
 Electric Furnace-Man, Inc., Emmaus, Pa.
 Electro-Watt, Inc., Seattle, Wash.
 Electrol Burner Mfg. Co., Inc., Rutherford, N. J.
 General Automatic Products Corp., Baltimore, Md.
 General Oil Heating Corp., West New York, N. J.
 Gilbert & Barker Mfg. Co., West Springfield, Mass.
 Green-Colonial Inc., Des Moines, Ia.
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Hart Heat Div., Avery Farm Machinery Co., Peoria, Ill.
 Harvey, Inc., Sid, Valley Stream, N. Y.
 Heating Specialties Inc., Baltimore, Md.
 Heil-Quaker Corp., Nashville, Tenn.
 Henry Furnace Co., Medina, O.
 Herco Oil Burner Corp., Lancaster, Pa.
 Hershey Motorstokor, Mannheim, Pa.
 HomEse Products Div. of Bogue Electric Mfg. Co., Paterson, N. J.
 International Heater Co., Utica, N. Y.
 Iron Fireman Mfg. Co., Cleveland, O.
 Johnson Co., S. T., Oakland, Calif.
 Kol-Master Corp., Oregon, Ill.
 Kresky Mfg. Co., Inc., Petaluma, Calif.
 Kresno-Stamm Mfg. Co., Palisades Park, N. J.
 Laco Oil Burner Co., Inc., Griswold, Ia.
 Lennox Industries Inc., Marshalltown, Ia.

Lincoln Air Control Products, Inc., Swarthmore, Pa.
 Lincoln Furnace Co., Inc., Hawthorne, N. J.
 Lynn Products Co., Lynn, Mass.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 McDonald Mfg. Co., A. Y., Dubuque, Iowa.
 McPherson Furnace & Supply Co., Portland, Ore.
 Metzger Machine & Engineering Co., Thermoflo Div., Milwaukee, Wis.
 Meyer Furnace Co., Peoria, Ill.
 Montag Inc., Portland, Ore.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Mortemp Corp., Seattle, Wash.
 Mueller Climatrol, Milwaukee, Wis.
 National Airoil Burner Co., Inc., Philadelphia, Pa.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 North Coast Mfg. Corp., Portland, Ore.
 Nu-Way Corp., The, Rock Island, Ill.
 Oil Equipment Laboratories, Inc., Elizabeth, N. J.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Patten Co., J. V., Sycamore, Ill.
 Peerless Corp., Indianapolis, Ind.
 Penn Boiler Div., Pebbco Industries Inc., Lancaster, Pa.
 Perfection Div., Hupp Corp., Cleveland, O.
 Petro Div., Iron Fireman Mfg. Co., Cleveland, O.
 Preferred Utilities Mfg. Corp., New York, N. Y.
 Premier Furnace Co., Dowagiac, Mich.
 Premium Coal & Oil Co., Cincinnati, O.
 Quick Furnace & Supply Co., Des Moines, Ia.
 Quiet Automatic Burner Corp., Newark, N. J.
 Quiet-Heat Div., Burner Mfg. Corp. of America, New York, N. Y.
 Radiant Utilities Corp., Brooklyn, N. Y.
 Ray Oil Burner Co., San Francisco, Calif.
 Red Wing Oil Burner Co., Inc., Medford, Mass.
 Reif-Rexoil, Inc., Buffalo, N. Y.
 Roscoe Mfg. Co., Seattle, Wash.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, O.
 S-K Co., Inc., Camden, N. J.
 Sandberg Mfg. Co., Portland, Ore.
 Schwab Safe Co., Lafayette, Ind.
 Sheet Metal Mfg. Co., Youngstown, O.
 Silent Automatic Products, Cleveland, O.
 Silent-Flame Products, Blue Point Electronics Corp., Blue Point, L. I., N. Y.
 Silent Glow Oil Burner Co., Hartford, Conn.
 Simplex Oil Heating Corp., Philadelphia, Pa.
 Standard Automatic Oil Burner Co., Newark, N. J.
 Steel City Furnace Corp., Springdale, Pa.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Lebanon, Ind.
 Stratton & Terstegge Co., Louisville, Ky.
 Sundstrand Engineering Co., Rock Island, Ill.
 Sun-Ray Burner Mfg. Corp., Jamaica, N. Y.
 Synchronous Flame, Inc., Walworth, Wis.
 Syncromatic Corp., Watertown, Wis.
 Thatcher Furnace Co., Garwood, N. J.
 Thermo-Products, Inc., North Judson, Ind.
 Toridheet Div., Cleveland Steel Products Corp., Cleveland, O.
 Tru-Heat Co., Trenton, N. J.
 Twin Control Burner Mfg. Co., New York, N. Y.
 Viking Mfg. Corp., Cleveland, O.
 Volcano Burner Mfg. Inc., New York, N. Y.
 Waltham Oil Burner Co., Inc., Boston, Mass.
 Waterair Co., Medford, Mass.
 Wayne Home Equipment Co., Inc., Ft. Wayne, Ind.
 Weatherall Engineers, Inc., Providence, R. I.
 Wesco Furnace Div., Northwest Foundry & Furnace Co., Portland, Ore.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, O.
 Wisconsin Burners Inc., Madison, Wis.
 Wood Co., John, Heater & Tank Div., Conshohocken, Pa.
 York-ShIPLEY, Inc., York, Pa.

BURNERS, OIL, LOW PRESSURE (No. 2 Oil)

Bard Mfg. Co., Bryan, O.
 Herco Oil Burner Corp., Lancaster, Pa.
 Mortemp Corp., Seattle, Wash.
 Nu-Way Corp., The, Rock Island, Ill.
 Radiant Utilities Corp., Brooklyn, N. Y.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Lebanon, Ind.

Weatherall Engineers, Inc., Providence, R. I.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.

BURNERS, OIL, ROTARY (No. 2 Oil)

Chalmers Oil Burner Co., Minneapolis, Minn.
 Petro Div., Iron Fireman Mfg. Co., Cleveland, O.
 Ray Oil Burner Co., San Francisco, Calif.
 Rayfield-Staffco Burner Co., Elkhart, Ind.
 Silent Automatic Products, Cleveland, O.
 Swirling Oil Burner Mfg. Corp., Jamaica, N. Y.
 Toridheet Div., Cleveland Steel Products Corp., Cleveland, O.

BURRING MACHINES

See Machines, Burring

CABINETS AND CASINGS

Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, Ohio.
 Atlas Mfg. Co., St. Paul, Minn.
 Berger Div., Republic Steel Corp., Canton, O.
 Biersach & Niedermeyer Co., Milwaukee, Wis.
 Brundage Co., Kalamazoo, Mich.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Chicago Metal Mfg. Co., Chicago, Ill.
 Dahlstrom Mfg. Corp., Jamestown, N. Y.
 Falstrom Co., Passaic, N. J.
 Harrison Sheet Steel Co., Chicago, Ill.
 Industrial Equipment Co., The, Minster, O.
 Kirk & Blum Mfg. Co., Cincinnati, Ohio.
 Moss Industries, Inc., Brooklyn, N. Y.
 Republic Steel Corp., Cleveland, O.
 Rybolt Heater Co., Ashland, O.
 St. Charles Mfg. Co., St. Charles, Ill.
 Steinhorst & Sons, Inc., Emil, Utica, N. Y.
 Thermo-Products, Inc., North Judson, Ind.
 Utica Products, Inc., Utica, N. Y.
 Zick Sheet Metal Works, Dearborn, Mich.

CABLE, ELECTRIC HEATING

For Ceilings

Arvin Industries, Inc., Columbus, Ind.
 Cavalier Corp., Electric Heating Div., Chattanooga, Tenn.
 Ceilheat, Inc., Knoxville, Tenn.
 Dixie Radiant Electric Heat Corp., Atlanta, Ga.
 Electromode Div. of Commercial Controls Corp., Rochester, N. Y.
 Emerson Electric Mfg. Co., St. Louis, Mo.
 Everwarm, Inc., Knoxville, Tenn.
 Fasco Industries, Inc., Rochester, N. Y.
 General Electric Co., Wiring Devices Dept., Providence, R. I.
 Martin Stamping & Stove Co., Huntsville, Ala.
 Meier Electric, Indianapolis, Ind.
 Modernheat Cable Corp., Kingsport, Tenn.
 Radiant Electric Heat Co., Centerville, Iowa
 Rentip, Inc., Knoxville, Tenn.
 Roberson Inc., Seattle, Wash.
 Sunwarm, Inc., Kingsport, Tenn.
 Tennessee Plastics, Inc., Johnson City, Tenn.
 Wiegand Co., Edwin L., Pittsburgh, Pa.
 Zell-Aire Corp., Reading, Pa.

CALCULATORS, HEATING, AIR CONDITIONING AND SHEET METAL

Airserco Mfg. Co., Pittsburgh, Pa.
 Armco Steel Corp., Middletown, O.
 Calculator Specialty Co., Chicago, Ill.
 Dwyer Mfg. Co., F. W., Michigan City, Ind. (Heating and air flow)
 Hygro-dynamics, Inc., Silver Spring, Md. (Psychrometric)
 Morton Engineering Services, Paul S., Kalamazoo, Mich.
 Perrygraf Corp., Maywood, Ill.
 Smith Corp., A. O., Motor Div., Tipp City, O.

CANOPIES, METAL, SUN REFLECTING

Air Control Products, Inc., Coopersville, Mich.
Aiolite Co., Marietta, O.
American Warming & Ventilating Co., Toledo, O.
Bridgeport Brass Co., Hunter Douglas Div., Bridgeport, Conn.
Brisk Metal Products Div., Brisk Waterproofing Co., Inc., Ridgefield, N. J.
Childers Mfg. Co., Houston, Tex.
Construction Specialties, Inc., Cranford, N.J.
Kaiser Aluminum & Chemical Sales, Inc., Oakland, Calif.
Kawneer Co., Niles, Mich.
Mapes Industries, Inc., Lincoln, Nebr.
Russell Co., F. C., Columbiana, O.
Van Noorden Co., E., Boston, Mass.

CANOPIES, PREFABRICATED

Air Control Products, Inc., Coopersville, Mich.
Kawneer Co., Niles, Mich.

CAPACITORS, ELECTRICAL, FOR POWER FACTOR CORRECTION

General Electric Co., Apparatus Sales Div., Schenectady, N. Y.
General Electric Co., Capacitor Dept., Hudson Falls, N. Y.
Mallory Co., Inc., P. R., Indianapolis, Ind.
Potter Co., North Chicago, Ill.
Sprague Products Co., North Adams, Mass.

CAPILLARY TUBING

See Tubing, Capillary, for Refrigerants

CAPS AND TOPS, CHIMNEY

Accurate Sheet Metal & Mfg. Works, Chicago, Ill.
Acme Mfg. Co., Philadelphia, Pa.
Adams Co., Dubuque, Iowa.
Adelta Mfg. Co., Philadelphia, Pa.
Airjet Ventilator Co., San Clemente, Calif.
Allen Cooler & Ventilator Inc., Rochester, Mich.
Ammerman Co., Inc., Stillwater, Minn.
Armstrong Fittings Co., Des Moines, Ia.
Boston Machine Works Co., Lynn, Mass.
Bredert Co., G. C., San Fernando, Calif.
Champion Furnace Pipe Co., Peoria, Ill.
Corbman Bros., Inc., Philadelphia, Pa.
Dura-Vent Corp., Sub. of Dover Corp., Redwood City, Calif.
Excelsior Steel Furnace Co., Chicago, Ill.
Felter Co., John, Houston, Tex.
General Products Co., Fredericksburg, Va.
Hart & Cooley Mfg. Co., Holland, Mich.
Huncilman & Son, Bert R., New Albany, Ind.
Inland Steel Products Co., Milwaukee, Wis.
Kenetzer & Co., Frank, Chicago, Ill.
Leslie Welding Co., Inc., Franklin Park, Ill.
Little Burner Co., Inc., H. C., San Rafael, Calif.
Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif.
Majestic Co., Inc., Huntington, Ind.
Maurlee Co., Inc., Woodbury Hts., N. J.
New Delphos Mfg. Co., Delphos, O.
Nicework Metal Products Co., Leetsdale, Pa.
Norwood Products Co., Div. A. R. Wood Mfg. Co., Luverne, Minn.
Ohio Foundry & Mfg. Co., Steubenville, O.
Penn Supply & Metal Corp., Philadelphia, Pa.
Penn Ventilator Co., Inc., Philadelphia, Pa.
Ralph Mfg. Co., Inc., Wadsworth, O.
Royal Apex Mfg. Co., Inc., Brooklyn, N. Y.
St. Clair Metal Products Co., Cleveland, O.
Savannah Chimney Mfg., Inc., Savannah, Ga.
Sheet Metal Mfg. Co., Inc., Brooklyn, N. Y.
Sioux Steel Co., Sioux Falls, S. D.
Southbridge Roofing Co., Inc., Southbridge, Mass.
Standard Metal Fabricating Co., Omaha, Nebr.
Sterling Foundry Co., Sterling, Ill.
Tesco, Inc., Tulsa, Okla.
Tierney Rotor Ventilator Co., Minneapolis, Minn.
Triangle Engineering Co., Houston, Tex.
Walker Mfg. & Sales Corp., St. Joseph, Mo.
Wallace Co., William, Metalbestos Div., Belmont, Calif.
Waverly Heating Supply Co., Beverly, Mass.
Wilder Products Co., Springfield, O.

CAPS, FUEL TANK VENT

Accurate Sheet Metal & Mfg. Works, Chicago, Ill.
Air-Maze Corp., Cleveland, O.
Ammerman Co., Inc., Stillwater, Minn.
Mirror Patented Stove Pipe Co., Hartford, Conn.
Morse-Smith-Morse Co., The, Watertown, Mass.
Preferred Utilities Mfg. Corp., New York, N. Y.
Simplex Distributors, Inc., Brooklyn, N. Y.

CASINGS

See Cabinets and Casings

CAULKING COMPOUNDS

See Compounds, Caulking

CEILING DIFFUSERS

See Diffusers, Air, Ceiling

CEILINGS, HEATING AND COOLING, AND ACOUSTICAL CONTROL

Airson Co., Inc., Milwaukee, Wis.
Airtex Corp., Chicago, Ill.
Simplex Ceiling Corp., New York, N.Y.

CEILINGS, METAL

Aluminum Co. of America, Pittsburgh, Pa. (Aluminum)
Edwards Mfg. Co., Inc., Cincinnati, Ohio.
Fenestra Inc., Detroit, Mich.
Hauserman Co., E. F., Cleveland, Ohio.
Metalines, Inc., Rockford, Ill.
Reynolds Metals Co., Richmond, Va.
Tennessee Coal, Iron & Railroad Co., Fairfield, Ala.
Thermotank, Inc., Air Products Div., Detroit, Mich.
Tiffin Art Metal Co., Tiffin, Ohio.
Wheeling Corrugating Co., Wheeling, W. Va.

CEMENT, FURNACE

Baldwin-Ehret-Hill, Inc., Trenton, N. J.
Botfield Refractories Co., Philadelphia, Pa.
Carey Mfg. Co., Philip, Cincinnati, Ohio.
Clinton Metallic Paint Co., Clinton, N. Y.
Coleman Co., Everett, Mass.
Hercules Chemical Co., Inc., New York, N. Y.
Johns-Manville, New York, N. Y.
Lastik Paint Inc., Pittsburgh, Pa.
Nebel Mfg. Co., Cleveland, Ohio.
Nicolet Industries, Inc., Florham Park, N. J.
Pecora, Inc., Philadelphia, Pa.
Plastic Products Co., Detroit, Mich.
Preferred Utilities Mfg. Corp., New York, N. Y.
Quigley Co., Inc., New York, N. Y.
Radiator Specialty Co., Charlotte, N. C.
Refractory & Insulation Corp., New York, N. Y.
Rutland Fire Clay Co., Rutland, Vt.
S.O.S. Products Co., Inc., Brooklyn, N. Y.
Sauereisen Cements Co., Pittsburgh, Pa.
Smooth-on Mfg. Co., Jersey City, N. J.
Standard Asbestos Mfg. Co., Chicago, Ill.
Standard Fuel Engineering Co., Detroit, Mich.
Tamm Industries, Inc., Chicago, Ill.
United Gilsonite Laboratories, Scranton, Pa.
Wilson, Inc., Grant, Chicago, Ill.

CEMENT, INSULATING

Armstrong Cork Co., Lancaster, Pa.
Baldwin-Ehret-Hill, Inc., Trenton, N. J. (Mineral wool)
Carey Mfg. Co., Philip, Cincinnati, Ohio. (Abestos, magnesia, rock wool).
Coleman Co., Everett, Mass.
Denver Fire Clay Co., Denver, Colo. (Vermiculite & rock wool; high temperature).
Eagle-Picher Co., Cincinnati, Ohio. (Abestos, mineral wool)

Fibreboard Paper Products Corp., San Francisco, Calif. (Magnesia and calcium silicate)
 Forty-Eight Insulations, Inc., Aurora, Ill. (Mineral wool)
 Green Fire Brick Co., A. P., Mexico, Mo. (Mineral wool)
 International Vermiculite Co., Girard, Ill. (Vermiculite)
 Johns-Manville, New York, N. Y.
 Keesbey & Mattison Co., Ambler, Pa. (Asbestos).
 Mundet Cork Corp., North Bergen, N. J. (Magnesia).
 Nicolet Industries, Inc., Florham Park, N. J.
 Ohmlac Paint & Refining Co., Chicago, Ill. (Asphalt & asbestos).
 Preferred Utilities Mfg. Corp., New York, N. Y.
 Pyrolite Products Co., Cleveland, Ohio.
 Quigley Co., Inc., New York, N. Y. (Asbestos).
 Ramtite Co., Div. of Obermayer Co., Chicago, Ill.
 Refractory & Insulation Corp., New York, N. Y. (Castable refractory).
 Rex Roto Corp., Walled Lake, Mich.
 Robinson Insulation Co., Great Falls, Mont. (Vermiculite).
 Ruberoid Co., New York, N. Y. (Asbestos).
 Rutland Fire Clay Co., Rutland, Vt. (Asbestos).
 Sauereisen Cements Co., Pittsburgh, Pa.
 Standard Asbestos Mfg. Co., Chicago, Ill. (Asbestos).
 Standard Fuel Engineering Co., Detroit, Mich. (Rock wool & asbestos).
 Thomson & Co., Oakmont, Pa. (Asbestos).
 United States Mineral Wool Co., Stanhope, N. J. (Mineral wool).
 Wilson, Inc., Grant, Chicago, Ill. (Asbestos).
 Zonolite Co., Chicago, Ill. (Vermiculite).

CEMENT, REFRACTORY

See Refractories

CEMENT, ROOF

Barrett Div. Allied Chemical Corp., New York, N. Y.
 Bird & Son, Inc., East Walpole, Mass.
 Blue Ridge Talc Co., Inc., Henry, Va.
 Calbar Paint & Varnish Co., Philadelphia, Pa.
 Carey Mfg. Co., Philip, Cincinnati, Ohio.
 Carter Paint Co., Inc., Liberty, Ind.
 Celotex Corp., Chicago, Ill.
 Certain-teed Products Corp., Ardmore, Pa.
 Continental Products Co., Euclid, Ohio.
 Coopers Creek Chemical Corp., West Conshohocken, Pa.
 Flintkote Co., New York, N. Y.
 Glidden Co., Cleveland, Ohio.
 Harrison Paint & Varnish Co., The Midland Industrial Div., Canton, O.
 Horn Co., Inc., A. C., North Bergen, N. J.
 Iowa Paint Mfg. Co., Inc., Des Moines, Iowa.
 Iron-Hide Sales Co., Matawan, N. J.
 Johns-Manville, New York, N. Y.
 Keesbey & Mattison Co., Ambler, Pa.
 Koppers Co., Inc., Pittsburgh, Pa.
 Lastik Paint Inc., Pittsburgh, Pa.
 Meadows, Inc., W. R., Elgin, Ill.
 National Mfg. Corp., Tonawanda, N. Y.
 Nebel Mfg. Co., Cleveland, Ohio.
 North American Mogul Products Co., Cleveland, Ohio.
 Ohmlac Paint & Refining Co., Chicago, Ill.
 Pecora, Inc., Philadelphia, Pa.
 Pittsburgh Chemical, Summit, Ill.
 Presstite Div., American-Marietta Co., St. Louis, Mo.
 Ruberoid Co., New York, N. Y.
 Rutland Fire Clay Co., Rutland, Vt.
 S.O.S. Products Co., Inc., Brooklyn, N. Y.
 Sonneborn Sons, Inc., L., New York, N. Y.
 Southport Paint Co., Div. Wesson Oil & Snowdrift Co., Inc., Savannah, Ga.
 Thompson & Co., Oakmont, Pa.
 Tropical Paint Co., Cleveland, Ohio.
 United Gilsonite Laboratories, Scranton, Pa.
 United States Gypsum Co., Chicago, Ill.
 Whitlam Mfg. Co., J. C., Wadsworth, O.

CENTERS, CONTROL AND INSTRUMENT, RESIDENTIAL AIR CONDITIONING AND HEATING, FOR INSTALLATION IN LIVING AREA

American-Standard Air Conditioning Div., New York, N. Y.

Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.

CHAIN, FURNACE

Bead Chain Mfg. Co., Bridgeport, Conn.
 Hart & Cooley Mfg. Co., Holland, Mich.
 McKay Co., Pittsburgh, Pa.
 Tamms Industries Co., Chicago, Ill.
 Turner & Seymour Mfg. Co., Torrington, Conn.
 United States Register Co., Battle Creek, Mich.

CHAMBERS, COMBUSTION, PREFORMED

Armstrong Cork Co., Lancaster, Pa. (Insulating refractory).
 Babcock & Wilcox Co., Refractories Div., New York, N. Y.
 Boston Machine Works Co., Lynn, Mass. (Insulating brick).
 Gem Clay Forming Co., Sebring, O.
 Green Fire Brick Co., A. P., Mexico, Mo. (Fire clay, insulating brick).
 Harvey, Inc., Sid, Valley Stream, N. Y.
 Kolb Refractories Co., Philadelphia, Pa.
 Monogram Products Co., Inc., Philadelphia, Pa. (Insulating refractory).
 Mortemp Corp., Seattle, Wash. (Chrome steel).
 Oil Equipment Mfg. Co., New Haven, Conn. (Inconel).
 Peterson Co., B. A., Dowagiac, Mich.
 Refractory & Insulation Corp., New York, N. Y. (Refractory).
 Rehm-Schiess Corp., Jamaica, N. Y. (Radiant silicons)
 Rex Roto Corp., Walled Lake, Mich. (Refractory)
 S.O.S. Products Co., Inc., Brooklyn, N. Y.
 Sandberg Mfg. Co., Portland, Ore. (Stainless steel).
 Shenango Refractories Co., New Castle, Pa.
 Universal Zonolite Insulation Co., Chicago, Ill. (Vermiculite concrete).
 Webber Co., A. R., New Haven, Conn. (Refractory).
 Wilson, Inc., Grant, Chicago, Ill.

CHAMBERS, PLENUM, PREFABRICATED

Armstrong Fittings Co., Des Moines, Ia.
 Gary Steel Products Corp., Gary, Ind.
 Henry Furnace Co., Medina, O.
 Inland Steel Products Co., Milwaukee, Wis.
 Maurlee Co., Inc., Woodbury Heights, N. J.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Ralph Mfg. Co., Inc., Wadsworth, O.
 Williamson Co., The, Cincinnati, O.

CHANNELS

See Angles, Bars, Beams, Channels and Tees

CHARGING PANEL FOR REFRIGERANTS

See Pumps, Refrigerant Transfer

CHEMICALS FOR CLEANING

See Compounds, Cleaning, Condenser and Coil

CHEMICALS, RUST PREVENTIVE

Amchem Products, Inc., Ambler, Pa.
 American Sand-Banum Co., Inc., Merrick, N. Y.
 Aquatrol Laboratories, Inc., Clifton, N. J.
 Calgon Co., Div. of Hagan Chemicals & Controls, Inc., Pittsburgh, Pa.
 Cristy Specialty Corp., Worcester, Mass.
 Dearborn Chemical Co., Chicago, Ill.
 du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
 Industrial Service Laboratories, Milwaukee, Wis.
 Klem Chemicals, Inc., Dearborn, Mich.
 Magnus Chemical Co., Garwood, N. J.
 Metropolitan Refining Co., Inc., Long Island City, N. Y.
 Mortell Co., J. W., Kankakee, Ill.
 Neilson Chemical Co., Detroit, Mich.
 North American Mogul Products Co., Cleveland, Ohio.

Oakite Products, Inc., New York, N. Y.
 Okun Co., Inc., A. L., So. Ozone Park, N. Y.
 Pennsalt Chemicals Corp., Philadelphia, Pa.
 Pennsylvania Refining Co., Ohio Div., Cleveland, Ohio.
 Protective Coatings, Inc., Detroit, Mich.
 Radiator Specialty Co., Charlotte, N. C.
 Rust-Oleum Corp., Evanston, Ill.
 S.O.S. Products Co., Inc., Brooklyn, N. Y.
 Sudbury Laboratory, Sudbury, Mass.
 Truscon Laboratories, Detroit, Mich.
 Turco Products, Inc., Wilmington, Calif.

CHIMNEY CAPS

See Caps and Tops, Chimney

CHIMNEY HOUSINGS, PREFABRICATED

See Housings, Chimney, Prefabricated

CHIMNEY LINERS

See Linings, Chimney

CHIMNEYS, PREFABRICATED, FOR ALL FUELS

(For Gas Vents, See Vents, Gas)

Chimney Sales Corp., Washington, D. C.
 Condensation Engineering Corp., Chicago, Ill.
 Huncilman & Son, Bert R., New Albany, Ind.
 Majestic Co., Inc., Huntington, Ind.
 McQuay, Inc., Minneapolis, Minn.
 Savannah Chimney Mfg., Inc., Savannah, Ga.
 Thor Metal Products Co., Inc., Syracuse, N. Y.
 Van-Packer Co., Div. of Flinkote Co., Chicago Heights, Ill.
 Wallace Co., William, Metalbestos Div., Belmont, Calif.

CIRCULAR SAWS

See Machines, Sheet Metal Working, Saws, Circular

CLAMPS, BEAM, DUCT HANGING

Malco Products, Minneapolis, Minn.
 Tinnerman Corp., Geo. A., Cleveland, O.

CLEANERS, AIR, ELECTRONIC (WITH OUTSIDE POWER SOURCE)

Air-Maze Corp., Cleveland, Ohio.
 Albion Div., McGraw-Edison Co., Albion, Mich.
 American Air Filter Co., Inc., Louisville, Ky.
 CRS Industries, Inc., Philadelphia, Pa.
 Dollinger Corp., Rochester, N. Y.
 Electro-Air Cleaner Co., Inc., McKees Rocks, Pa.
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Mamco Corp., Racine, Wis.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Mueller Climatrol, Milwaukee, Wis.
 Radex Corp., Chicago, Ill.
 Rybolt Heater Co., Ashland, O.
 Trion, Inc., McKees Rocks, Pa.
 Westinghouse Electric Corp., Sturtevant Div., Hyde Park, Boston, Mass.
 York Div. of Borg-Warner Corp., York, Pa.

CLEANERS AIR, ELECTRONIC, PORTABLE (WITH OUTSIDE POWER SOURCE)

Electro-Air Cleaner Co., Inc., McKees Rocks, Pa.
 Radex Corp., Chicago, Ill.
 Trion, Inc., McKees Rocks, Pa.

CLEANERS, POLISHERS AND FINISHERS, METAL

Allen Co., Inc., L. B., Schiller Park, Ill. (Stainless steel & monel).

Amchem Products, Inc., Ambler, Pa.
 Armour Alliance Industries, Alliance, O. (Polishing paper)
 Brulin & Co., Inc., Indianapolis, Ind. (De-greasing compound).
 Colonial Alloys Co., Philadelphia, Pa.
 du Pont de Nemours & Co., Inc., E. I., Wilmington, Del. (All metals).
 Klem Chemicals, Inc., Dearborn, Mich.
 Magnus Chemical Co., Garwood, N. J.
 Minnesota Mining and Mfg. Co., Coated Abrasives and Related Products Div., St. Paul, Minn.
 Neilson Chemical Co., Detroit, Mich.
 NuSteel Co., Chicago, Ill. (Aluminum & stainless steel).
 Oakite Products, Inc., New York, N. Y.
 Pennsalt Chemicals Corp., Philadelphia, Pa. (Ferrous and non-ferrous).
 Protective Coatings, Inc., Detroit, Mich.
 Randolph-Page, Inc., New York, N. Y. (Aluminum)
 Standard Steel Spring Co., Gary, Ind.
 Tamm Industries Co., Chicago, Ill.
 Truscon Laboratories, Detroit, Mich.
 Turco Products, Inc., Wilmington, Calif.
 Western Reserve Laboratories, Cleveland, Ohio.
 Wolfe-Kote Co., Sheboygan, Wis.

CLEANERS, VACUUM, FURNACE

Ace-Sycamore, Inc., Sycamore, Ill.
 American Cleaning Equipment Corp., Schiller Park, Ill.
 Baker Furnace & Cleaner Mfg. Co., Toledo, Ohio.
 Breuer Electric Mfg. Co., Chicago, Ill.
 Chicago Blower Corp., Franklin Park, Ill.
 Choldum Mfg. Corp., New Haven, Conn.
 Doyle Vacuum Cleaner Co., Grand Rapids, Mich.
 Empire Chemical Products Co., Newark, N. J.
 General Blower Co., Morton Grove, Ill.
 Harvey, Inc., Sid, Valley Stream, N. Y.
 Hasko Utilities Co., New York, N. Y.
 Ideal Industries, Inc., Sycamore, Ill.
 Kent Co., Inc., Rome, N. Y.
 Master-Craft Industries, Inc., Garfield, N. J.
 National Super Service Co., Toledo, Ohio.
 Premier Co., St. Paul, Minn.
 Pullman Vacuum Cleaner Corp., Boston, Mass.
 Spencer Turbine Co., Hartford, Conn.
 Thompson & Sons, Inc., Lyons, Ill.

CLEANERS, VACUUM, FURNACE AND DUCT, TRUCK OR TRAILER MOUNTED

Deco Mfg. Co., Rockford, Ill.
 Delamater Equipment Co., Inc., Rockford, Ill.
 Kleen-Air, Inc., Payne, O.
 Meyer & Sons, Inc., W. W., Skokie, Ill.
 Molloy Machine Corp., Chicago, Ill.
 Pringle & Son, R. A., Walla Walla, Wash.
 Spencer Turbine Co., Hartford, Conn.

CLEANING COMPOUNDS

See Compounds, Cleaning

CLEANOUT DOORS

See Doors, Metal, Cleanout

CLEAT BENDERS

See Machines, Cleat Bending

CLEATS, DRIVE

See Connectors, Metal

CLEATS, SHEET METAL

See Fastenings, Sheet Metal

CLIPS, FASTENING, ROOFING

Bard Mfg. Co., Bryan, Ohio.

Berger Bros., Co., Philadelphia, Pa.
Lexsuco, Inc., Solon, O.
Southbridge Roofing Co., Inc., Southbridge, Mass.

CLIPS AND TIPS, DAMPER

Berger Bros. Co., Philadelphia, Pa.
Duro-Dyne Corp., Farmingdale, N. Y.
Gerett Corp., M. A., Milwaukee, Wis.
Hart & Cooley Mfg. Co., Holland, Mich.
Howes-Woods Co., Cambridge, Mass.
Inland Steel Products Co., Milwaukee, Wis.
Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif.
Severson Mfg. & Supply Co., Milwaukee, Wis.
United States Register Co., Battle Creek, Mich.

CO₂ ANALYZERS

See Analyzers, CO₂

COAL BURNERS, AUTOMATIC

See Stokers

COATINGS, METAL PROTECTIVE

American Agile Corp., Bedford, O.
Arco Co., Cleveland, O.
Atlas Mineral Products Co., Mertztown, Pa.
Carboline Co., St. Louis, Mo.
Chemical Coatings & Engineering Co., Inc., Media, Pa.
Continental Coatings Corp., Cleveland, O.
Heresite & Chemical Co., Manitowoc, Wis.
Interchemical Corp., Finishes Div., Newark, N. J.
Koppers Co., Inc., Tar Products Div., Pittsburgh, Pa. (Bitumastic)
Minnesota Mining & Mfg. Co., Adhesives, Coatings & Sealers Div., St. Paul, Minn.
Mortell Co., J. W., Kankakee, Ill.
PSC Inc., New York, N. Y.
Pittsburgh Chemical, Summit, Ill.
Pittsburgh Plate Glass Co., Pittsburgh, Pa.
Polymer Corp., Reading, Pa. (Plastic)
Rusticide Products Co., Cleveland, O.
Solfo Paint Mfg. Co., Trenton, N. J.

COIL CRADLES

See Reels and Cradles, Sheet Metal

COILS, BLAST, ELECTRIC

See Heaters, Duct, Electric

COILS, COOLING, DIRECT EXPANSION

Addison Products Co., Addison, Mich.
Aerofin Corp., Syracuse, N. Y.
Airtemp Div., Chrysler Corp., Dayton, O.
American-Standard Air Conditioning Div., New York, N. Y.
American-Standard Industrial Div., Detroit, Mich.
Anderson-Snow Corp., Chicago, Ill.
Armstrong Furnace Co., Columbus, O.
Blissfield Mfg. Co., Blissfield, Mich.
Bohn Aluminum & Brass Corp., Danville Div., Danville, Ill.
Bryant Mfg. Co., Indianapolis, Ind.
Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
Century Engineering Corp., Cedar Rapids, Ia.
Chicago Steel Furnace Co., Elk Grove, Ill.
Circle Equipment Co., Indianapolis, Ind.
Cobell Industries, Inc., Cleburne, Tex.
Coleman Co., Inc., Wichita, Kans.
Columbia Burner Co., Toledo, O.
Conditionaire Unit Co., Chicago, Ill.
Coolenheat, Inc., Woodbridge, N. J.
Cool-Ette, Inc., Detroit, Mich.
Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.

Delco Appliance Div., General Motors Corp., Rochester, N. Y.
Drayer-Hanson, Div. of National-U. S. Radiator Corp., Los Angeles, Calif.
Dunham-Bush, Inc., West Hartford, Conn.
Fraser & Johnston Co., San Francisco, Calif.
Frick Co., Waynesboro, Pa.
Friedrich Refrigerators, Inc., San Antonio, Tex.
Frigid Coil, Inc., El Monte, Calif.
G & O Mfg. Co., New Haven, Conn.
Gaffers & Sattler, Los Angeles, Calif.
General Electric Co., Air Conditioning Dept., Tyler, Tex.
Governair Corp., Oklahoma City, Okla.
Great Northern Mfg. Co., Chicago, Ill.
Hall-Neal Furnace Co., Indianapolis, Ind.
Halstead & Mitchell, Pittsburgh, Pa.
Hastings Air Control, Inc., Omaha, Nebr.
Heat Controller, Inc., Jackson, Mich.
Henry Furnace Co., Medina, O.
Holly-General Co., Pasadena, Calif.
International Heater Co., Utica, N. Y.
International Mfg. Co., Oklahoma City, Okla.
Kauffman Air Conditioning Corp., St. Louis, Mo.
Kennard Corp., St. Louis, Mo.
Kirsch Co., Sturgis, Mich.
Kramer Trenton Co., Trenton, N. J.
Larkin Coils, Inc., Atlanta, Ga.
Lennox Industries Inc., Marshalltown, Ia.
Lincoln Air Control Products, Inc., Swarthmore, Pa.
Magic Aire Div., United Electric Co., Wichita Falls, Tex.
Majestic Co., Inc., Huntington, Ind.
Marlo Coil Co., St. Louis, Mo.
McCord Corp., Detroit, Mich.
McMillan Comfortaire Heat Pumps, Inc., Jacksonville, Fla.
McQuay, Inc., Minneapolis, Minn.
Meyer Furnace Co., Peoria, Ill.
Miami Products Div. of Crane Co., Miami, Okla.
Morrison Steel Products, Inc., Buffalo, N. Y.
Mueller Climatrol, Milwaukee, Wis.
Muncie Gear Works, Cordele, Ga.
Niagara Blower Co., New York, N. Y.
Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
Olsen Mfg. Co., The C. A., Elyria, O.
Payne Co., The, La Puente, Calif.
Peerless Corp., Indianapolis, Ind.
Peerless of America, Inc., Chicago, Ill.
Perfection Div., Hupp Corp., Cleveland, O.
Perflex Corp., Milwaukee, Wis.
RCA-Whirlpool, Central Home Air Conditioning Div., Whirlpool Corp., St. Joseph, Mich.
Recold Corp., Los Angeles, Calif.
Refrigeration Appliances, Inc., Chicago, Ill.
Rempe Co., Chicago, Ill.
Rigidbilt, Inc., Franklin Park, Ill.
Rinehart, Inc., Richmond, Ind.
Roberts-Gordon Appliance Co., Buffalo, N. Y.
Roessing Mfg. Co., Sharpsburg Sta., Pittsburgh, Pa.
Rome-Turney Radiator Co., Rome, N. Y.
Round Oak Div., Peerless Corp., Dowagiac, Mich.
Rybolt Heater Co., Ashland, O.
Smith, Inc., E. B., St. Petersburg, Fla.
Southwest Mfg. Co., Aurora, Mo.
Super Radiator Corp., Minneapolis, Minn.
Temco, Inc., Nashville, Tenn.
Temperature Control, Inc., Atlanta, Ga.
Tenney Engineering, Inc., Union, N. J.
Thatcher Furnace Co., Garwood, N. J.
Toridheet Div., Cleveland Steel Products Corp., Cleveland, O.
Trane Co., La Crosse, Wis.
Tubenfin Coil Co., Houston, Tex.
Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
U.S. Air Conditioning Corp., Delaware, O.
Vendorlator Mfg. Co., Fresno, Calif.
Wall Tube and Metal Products Co., Newport, Tenn.
Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
Williamson Co., The, Cincinnati, O.
Witt Co. Inc., A. H., Los Angeles, Calif.
Worthington Corp., Harrison, N. J.
York Div. of Borg-Warner Corp., York, Pa.
Young Radiator Co., Racine, Wis.

COILS, COOLING, WATER

Aerofin Corp., Syracuse, N. Y.
 Anderson-Snow Corp., Chicago, Ill.
 Bohn Aluminum & Brass Corp., Danville Div., Danville, Ill.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Conditionaire Unit Co., Chicago, Ill.
 Coolenheat, Inc., Woodbridge, N. J.
 Drayer-Hanson Div. of National-U. S. Radiator Corp., Los Angeles, Calif.
 Dunham-Bush, Inc., West Hartford, Conn.
 Frick Co., Waynesboro, Pa.
 G & O Mfg. Co., New Haven, Conn.
 Governair Corp., Oklahoma City, Okla.
 Halstead & Mitchell, Pittsburgh, Pa.
 Hastings Air Control, Inc., Omaha, Nebr.
 Heatron, Inc., York, Pa.
 Henry Furnace Co., Medina, O.
 International Mfg. Co., Oklahoma City, Okla.
 Kennard Corp., St. Louis, Mo.
 Kramer Trenton Co., Trenton, N. J.
 Larkin Coils, Inc., Atlanta, Ga.
 Magic Aire Div., United Electric Co., Wichita Falls, Tex.
 Marlo Coil Co., St. Louis, Mo.
 McCord Corp., Detroit, Mich.
 McMillan Comfortaire Heat Pumps, Inc., Jacksonville, Fla.
 McQuay, Inc., Minneapolis, Minn.
 National Pipe Bending Co., New Haven, Conn.
 Nesbitt, Inc., John J., Philadelphia, Pa.
 Niagara Blower Co., New York, N. Y.
 Payne Co., The, La Puente, Calif.
 Peerless of America, Inc., Chicago, Ill.
 Recold Corp., Los Angeles, Calif.
 Refrigeration Appliances, Inc., Chicago, Ill.
 Rempe Co., Chicago, Ill.
 Rigidbilt, Inc., Franklin Park, Ill.
 Roessing Mfg. Co., Sharpsburg Sta., Pittsburgh, Pa.
 Rome-Turney Radiator Co., Rome, N. Y.
 Rybolt Heater Co., Ashland, O.
 Super Radiator Corp., Minneapolis, Minn.
 Tenney Engineering, Inc., Union, N. J.
 Trane Co., La Crosse, Wis.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 U.S. Air Conditioning Corp., Delaware, O.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Wing Mfg. Div., L. J., Aero Supply Mfg. Co., Inc., Linden, N. J.
 Witt Co. Inc., A. H., Los Angeles, Calif.
 Worthington Corp., Harrison, N. J.
 York Div. of Borg-Warner Corp., York, Pa.
 Young Radiator Co., Racine, Wis.

COILS, FIRE POT, DOMESTIC HOT WATER

Adams Co., Dubuque, Iowa.
 Rempe Co., Chicago, Ill.
 Therm Oil Burner Co., Seattle, Wash.

COILS, HEATING

Aerofin Corp., Syracuse, N. Y.
 American Coils, Inc., Newark, N. J.
 American-Standard Industrial Div., Detroit, Mich.
 Anderson-Snow Corp., Chicago, Ill.
 Bayley Blower Co., Milwaukee, Wis.
 Bohn Aluminum & Brass Corp., Danville Div., Danville, Ill.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Conditionaire Unit Co., Chicago, Ill.
 Coolenheat, Inc., Woodbridge, N. J.
 Drayer-Hanson, Div. of National-U. S. Radiator Corp., Los Angeles, Calif.
 Dunham-Bush, Inc., West Hartford, Conn.
 G & O Mfg. Co., New Haven, Conn.
 Governair Corp., Oklahoma City, Okla.
 Halstead & Mitchell, Pittsburgh, Pa.
 Hastings Air Control, Inc., Omaha, Nebr.
 Heatron, Inc., York, Pa.
 International Mfg. Co., Oklahoma City, Okla.
 Kennard Corp., St. Louis, Mo.
 Kramer Trenton Co., Trenton, N. J.
 Larkin Coils, Inc., Atlanta, Ga.
 Marlo Coil Co., St. Louis, Mo.
 McCord Corp., Detroit, Mich.

McMillan Comfortaire Heat Pumps, Inc., Jacksonville, Fla.
 McQuay, Inc., Minneapolis, Minn.
 National Pipe Bending Co., New Haven, Conn.
 Nelson Products, Herman, American Air Filter Co., Inc., Louisville, Ky.
 Nesbitt, Inc., John J., Philadelphia, Pa.
 New York Blower Co., Chicago, Ill.
 Niagara Blower Co., New York, N. Y.
 Peerless of America, Inc., Chicago, Ill.
 Recold Corp., Los Angeles, Calif.
 Refrigeration Appliances, Inc., Chicago, Ill.
 Rempe Co., Chicago, Ill.
 Rigidbilt, Inc., Franklin Park, Ill.
 Roessing Mfg. Co., Pittsburgh, Pa.
 Super Radiator Corp., Minneapolis, Minn.
 Trane Co., La Crosse, Wis.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 U.S. Air Conditioning Corp., Delaware, O.
 Vulcan Radiator Co., Hartford, Conn.
 Wing Mfg. Div., L. J., Aero Supply Mfg. Co. Inc., Linden, N. J.
 Witt Co. Inc., A. H., Los Angeles, Calif.
 Worthington Corp., Harrison, N. J.
 York Div. of Borg-Warner Corp., York, Pa.
 Young Radiator Co., Racine, Wis.

COLLECTORS, DUST

Aerotec Industries, Inc., Greenwich, Conn.
 Agat Mfg. Co., Adrian, Mich.
 American Air Filter Co., Inc., Louisville, Ky.
 American-Standard Industrial Div., Detroit, Mich.
 Biersach & Niedermeyer Co., Milwaukee, Wis.
 Breuer Electric Mfg. Co., Chicago, Ill.
 Buffalo Forge Co., Buffalo, N. Y.
 Carolina Blower Co., Inc., Greensboro, N. C.
 Day Co., Minneapolis, Minn.
 DeVilbiss Co., The, Metal Fabricators Div., Detroit, Mich.
 Ducon Co., The, Mineola, N. Y.
 Dustender Co., Ann Arbor, Mich.
 Dust Suppression & Engineering Co., Lake Orion, Mich.
 Farr Co., Los Angeles, Calif.
 Goergen-Mackwirth Engineering Co., Buffalo, N. Y.
 Goethel Sheet Metal Works, Inc., Alfred, Milwaukee, Wis.
 Hammond Machinery Builders, Inc., Kalamazoo, Mich.
 Joy Mfg. Co., Pittsburgh, Pa.
 Kice Metal Products Co., Wichita, Kans.
 Kindt-Collins Co., Cleveland, O.
 Kirk & Blum Mfg. Co., Cincinnati, O.
 Lumm Co., A. H., Toledo, Ohio.
 Mahon Co., R. C., Detroit, Mich.
 Northern Blower Co., Cleveland, Ohio.
 Pangborn Corp., Hagerstown, Md.
 Puhl & Hepper Mfg. Co., Inc., St. Louis, Mo.
 Rees Blow Pipe Mfg. Co., Berkeley, Calif.
 Ruemelin Mfg. Co., Milwaukee, Wis.
 Schneible Co., Claude B., Detroit, Mich.
 Skinner Heating & Ventilating Co. Div. Young Sales Corp., St. Louis, Mo.
 Sly Mfg. Co., W. W., Cleveland, Ohio.
 Torit Mfg. Co., St. Paul, Minn.
 United Sheet Metal Co., Inc., Columbus, O.
 Vacu-Blast Co., Inc., Belmont, Calif.
 Western Blower Co., Seattle, Wash.
 Western Precipitation Corp., Los Angeles, Calif.
 Winkler & Sons, Inc., A. E., Milwaukee, Wis.
 Wood Co., John, Heater & Tank Div., Conshohocken, Pa.
 Young & Berke Co., Cincinnati, Ohio.
 Zack Co., The, Machinery and Equipment Div., Detroit, Mich. (Wet type)

COMBUSTION CHAMBERS

See Chambers, Combustion, Preformed; Baffles, Combustion Chamber

COMBUSTION CONTROLS

See Controls; Dampers, Draft

COMBUSTION HEADS, OIL BURNER

See Burner Parts, Oil

COMBUSTION TESTING EQUIPMENT

See Analyzers, CO₂; Gages, Draft; Thermometers

COMPOUNDS, AIR FRESHENING

Easton R. S. Corp., Brooklyn, N. Y.
Smith Chemical Co., E. W., La Puente, Calif.

COMPOUNDS, ALUMINUM CLEANING

Anton Co., New York, N. Y.
Brulin & Co., Inc., Indianapolis, Ind.
Chemclean Products Corp., College Point, N. Y.
Farrelloy Co., Philadelphia, Pa.
Klem Chemicals, Inc., Dearborn, Mich.
Oakite Products Inc., New York, N. Y.

COMPOUNDS, CAULKING

Allmetal Weatherstrip Co., Evanston, Ill.
Arco Co., Cleveland, O.
Armstrong Cork Co., Lancaster, Pa.
Babbitt Chemical Co. Inc., New Bedford, Mass.
Barrett Div., Allied Chemical Corp., New York, N. Y.
Blue Ridge Talc Co., Inc., Henry, Va.
Calbar, Inc., Philadelphia, Pa.
Carboline Co., St. Louis, Mo.
Carey Mfg. Co., Philip, Cincinnati, Ohio.
Carter Paint Co., Liberty, Ind.
Chamberlin Co. of America, New York, N.Y.
Cheesman-Elliott Co., Inc., Brooklyn, N. Y.
Chemical Coatings & Engineering Co., Inc., Media, Pa.
Continental Products Co., Euclid, Ohio.
DAP Inc., Dayton, O.
Division Lead Co., Summit, Ill.
Duro-Dyne Corp., Farmingdale, N. Y.
Fibreboard Paper Products Corp., San Francisco, Calif.
Flintkote Co., New York, N. Y.
Fuller Co., H. B., St. Paul, Minn.
Gates Engineering Co., Wilmington, Del.
Glidden Co., Cleveland, Ohio.
Goodrich Industrial Products Co., B. F., Akron, Ohio.
Harrison Paint & Varnish Co., The, Midland Industrial Div., Canton, O.
Horn Co., Inc., A. C., North Bergen, N.J.
Iowa Paint Mfg. Co., Inc., Des Moines, Ia.
Johns-Manville, New York, N. Y.
Lastik Paint Inc., Pittsburgh, Pa.
Meadows, Inc., W. R., Elgin, Ill.
Midland Paint & Varnish Co., Cleveland, Ohio.
Minnesota Mining & Mfg. Co., Adhesives, Coatings & Sealers Div., St. Paul, Minn.
Miracle Adhesives Corp., Bellmore, L.I., N. Y.
Mortell Co., J. W., Kankakee, Ill.
National Mfg. Corp., Tonawanda, N. Y.
Nebel Mfg. Co., Cleveland, Ohio.
Ohmlac Paint & Refining Co., Chicago, Ill.
Okun Co., Inc., A. L., So. Ozone Park, N. Y.
Pecora, Inc., Philadelphia, Pa.
Pittsburgh Plate Glass Co., Pittsburgh, Pa.
Plastic Products Co., Detroit, Mich.
Prestite Div., American-Marietta Co., St. Louis, Mo.
Products Research Co., Burbank, Calif.
Quigley Co., Inc., New York, N. Y.
Robertson Co., H. H., Pittsburgh, Pa.
S.O.S. Products Co., Inc., Brooklyn, N. Y.
Sherwin-Williams Co., Cleveland, Ohio.
Sipe & Co., James B., Pittsburgh, Pa.
Smooth-on Mfg. Co., Jersey City, N. J.
Sonneborn Sons, Inc., L., New York, N. Y.
Southport Paint Co., Div. Wesson Oil & Snowdrift Co., Inc., Savannah, Ga.
Tamms Industries Co., Chicago, Ill.
Travaco Laboratories, East Boston, Mass. (Plastic-metal base)
Tropical Paint Co., Cleveland, Ohio.
Truscon Laboratories, Detroit, Mich.
United Gilsonite Laboratories, Scranton, Pa.
West Chester Chemical Co., West Chester, Pa.
Whitlam Mfg. Co., J. C., Wadsworth, O.
X-Pando Corp., Long Island City, N. Y.

COMPOUNDS, CLEANING, AIR FILTER

Brulin & Co., Inc., Indianapolis, Ind.
Calgon, Inc., Pittsburgh, Pa.
City Chemical Corp., New York, N. Y.
Dollinger Corp., Rochester, N. Y.
du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
Empire Chemical Products Co., Newark, N.J.
Magnus Chemical Co., Garwood, N.J.
Montgomery Chemical Co., Jenkintown, Pa.
Oakite Products, Inc., New York, N. Y.
Smith Chemical Co., E. W., La Puente, Calif.

COMPOUNDS, CLEANING, CONDENSER AND COIL

Amchem Products, Inc., Ambler, Pa.
Aquatrol Laboratories, Inc., Clifton, N. J.
Calgon Co., Div. of Hagan Chemicals & Controls, Inc., Pittsburgh, Pa.
Carolina Aniline & Extract Co., Inc., Charlotte, N. C.
Chemical Solvent Co., Birmingham, Ala.
Dearborn Chemical Co., Chicago, Ill.
du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
Garman Co., Inc., St. Louis, Mo.
General Chemical Div., Allied Chemical Corp., New York, N.Y.
Lester Laboratories, Inc., Atlanta, Ga. (For use on coil face)
Magnus Chemical Co., Garwood, N. J.
Metropolitan Refining Co., Inc., Long Island City, N. Y.
North American Mogul Products Co., Cleveland, O.
Northeast Consultants, Inc., Framingham, Mass.
Oakite Products, Inc., New York, N. Y.
Pennsalt Chemicals Corp., Philadelphia, Pa.
Radiator Specialty Co., Charlotte, N. C.
S. O. S. Products Co., Inc., Brooklyn, N. Y.
Stiles Karlsonite Corp., Waukegan, Ill.
Turco Products, Inc., Wilmington, Calif.
Virginia Smelting Co., West Norfolk, Va.

COMPOUNDS, DEGREASING

Brulin & Co., Inc., Indianapolis, Ind.
Dow Chemical Co., Midland, Mich.
du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
Klem Chemicals, Inc., Dearborn, Mich.
Lester Laboratories, Inc., Atlanta, Ga.
Montgomery Chemical Co., Jenkintown, Pa.
Oakite Products, Inc., New York, N. Y.
S.O.S. Products Co., Inc., Brooklyn, N. Y.
Speco, Inc., Cleveland, O.
Stewart-Hall Chemical Corp., Mt. Vernon, N. Y.
Virginia Smelting Co., West Norfolk, Va.

COMPOUNDS, GALVANIZING

American Solder & Flux Co., Philadelphia, Pa.
Birchwood Chemical Co., Minneapolis, Minn.
Galvicon Corp., Brooklyn, N. Y.
Okun Co., Inc., A. L., So. Ozone Park, N.Y.
RotoMetals, San Francisco, Calif.

COMPOUNDS, WATER CONDITIONING

See Conditioners, Water

COMPOUNDS, WINTER PROTECTIVE, PUMP

Calgon Co., Div. of Hagan Chemicals & Controls, Inc., Pittsburgh, Pa.
Garman Co., Inc., St. Louis, Mo.

COMPRESSORS, REFRIGERATING, OPEN

(Up to 180,000 Btu/h only)

Brunner Div. of Dunham-Bush Inc., West Hartford, Conn.
Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
Copeland Refrigeration Corp., Sidney, Ohio.
Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.

Dicelzer Div. General Machine & Mfg. Co., Berwick, Pa.
 Frick Co., Waynesboro, Pa.
 Lehigh Mfg. Co., Div. of Lehigh, Inc., Easton, Pa.
 Reliance Refrigerating Machine Co., Chicago, Ill.
 Tecumseh Products Co., Tecumseh, Mich.
 Trane Co., LaCrosse, Wis.
 Yeomans Bros. Co., Melrose Park, Ill.
 York Div. of Borg-Warner Corp., York, Pa.

COMPRESSORS, REFRIGERATING, SEALED

(Up to 180,000 Btuh only)

Bendix-Westinghouse Automotive Air Brake Co., Evansville, Ind.
 Brunner Div. of Dunham-Bush Inc., West Hartford, Conn.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N.Y.
 Copeland Refrigeration Corp., Sidney, Ohio.
 Dicelzer Div., General Machine & Mfg. Co., Berwick, Pa.
 Lehigh Mfg. Co., Div. of Lehigh, Inc., Easton, Pa.
 Tecumseh Products Co., Tecumseh, Mich.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 York Div. of Borg-Warner Corp., York, Pa.

CONDENSATE INJECTOR

See Injector for Removing Condensate from Air Conditioning Units

CONDENSATE REMOVER

See Pumps, Condensate; Injector, Condensate

CONDENSERS, REFRIGERATING, AIR COOLED

(Up to 180,000 Btuh only)

Aimco Products Corp., Inc., Subsidiary of Yuba Consolidated Industries, Inc., Tulsa, Okla.
 Airtemp Div. Chrysler Corp., Dayton, Ohio.
 Bohn Aluminum and Brass Corp., Danville Div., Danville, Ill.
 Buffalo Forge Co., Buffalo, N. Y.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Cobell Industries, Inc., Cleburne, Tex.
 Condenser Service & Engrg. Co., Inc., Hoboken, N. J.
 Copeland Refrigeration Corp., Sidney, O.
 Curtis Mfg. Co. Refrigeration Div., St. Louis, Mo.
 Day & Night Mfg. Co., La Puente, Calif.
 Deansteel Products, San Antonio, Tex.
 Drayer-Hanson, Div. of National-U.S. Radiator Corp., Los Angeles, Calif.
 Dunham-Bush, Inc., West Hartford, Conn.
 Fedders Corp., Maspeth, N. Y.
 Fraser & Johnston Co., San Francisco, Calif.
 Friedrich Refrigerators, Inc., San Antonio, Tex.
 Halstead & Mitchell, Pittsburgh, Pa.
 Kennard Corp., St. Louis, Mo.
 Kirsch Co., Refrigeration Div., Sturgis, Mich.
 Kramer Trenton Co., Trenton, N. J.
 Larkin Coils, Inc., Atlanta, Ga.
 Magic Aire Div., United Electric Co., Wichita Falls, Tex.
 Marley Co., The, Kansas City, Mo.
 Marlo Coil Co., St. Louis, Mo.
 McMillan Comfortaire Heat Pumps, Inc., Jacksonville, Fla.
 McQuay, Inc., Minneapolis, Minn.
 Mueller Climatrol, Milwaukee, Wis.
 Peerless of America, Inc., Chicago, Ill.
 Recold Corp., Los Angeles, Calif.
 Refrigeration Appliances, Inc., Chicago, Ill.
 Rempe Co., Chicago, Ill.
 Res-Dent-Air Div., Peden Equipment Co., Houston, Tex.
 Rome-Turney Radiator Co., Rome, N. Y.
 Super Radiator Corp., Minneapolis, Minn.
 Texas Products Mfg. Co., Waco, Tex.
 U.S. Air Conditioning Corp., Delaware, O.
 Wall Tube and Metal Products Co., Newport, Tenn.
 Welbilt Air Conditioning and Heating Corp., Farmingdale, N. J.

Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Williamson Co., The, Cincinnati, O.
 York Div. of Borg-Warner Corp., York, Pa.

CONDENSERS, REFRIGERATING, EVAPORATIVE

(Up to 180,000 Btuh only)

Acme Industries, Inc., Jackson, Mich.
 Air Products, St. Louis, Mo.
 Baltimore Aircoil Co., Inc., Baltimore, Md.
 Buffalo Forge Co., Buffalo, N. Y.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Cobell Industries, Inc., Cleburne, Tex.
 Condenser Service & Engineering Co., Inc., Hoboken, N. J.
 Crowell & Dunn, Inc., New York, N. Y.
 Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.
 Drayer-Hanson, Div. of National-U.S. Radiator Corp., Los Angeles, Calif.
 Dunham-Bush, Inc., West Hartford, Conn.
 Frick Co., Waynesboro, Pa.
 Governair Corp., Oklahoma City, Okla.
 Kauffman Air Conditioning Corp., St. Louis, Mo.
 Kennard Corp., St. Louis, Mo.
 Larkin Coils, Inc., Atlanta, Ga.
 Marlo Coil Co., St. Louis, Mo.
 McQuay, Inc., Minneapolis, Minn.
 Recold Corp., Los Angeles, Calif.
 Refrigeration Appliances, Inc., Chicago, Ill.
 Trane Co., The, LaCrosse, Wis.
 Wall Tube and Metal Products Co., Newport, Tenn.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 XL Refrigerating Co., Chicago, Ill.
 York Div. of Borg-Warner Corp., York, Pa.

CONDENSERS, REFRIGERATING, SHELL AND COIL

(Up to 180,000 Btuh only)

Acme Industries, Inc., Jackson, Mich.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Condenser Service & Engineering Co., Inc., Hoboken, N. J.
 Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.
 Doyle & Roth Mfg. Co., Brooklyn, N. Y.
 General Fittings Co., Providence, R. I.
 Lehigh Mfg. Co., Div. of Lehigh, Inc., Easton, Pa.
 Nooter Corp., St. Louis, Mo.
 Rempe Co., Chicago, Ill.
 Rome-Turney Radiator Co., Rome, N. Y.
 Standard Refrigeration Co., Chicago, Ill.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 XL Refrigerating Co., Chicago, Ill.
 York Div. of Borg-Warner Corp., York, Pa.

CONDENSERS, REFRIGERATING, SHELL AND TUBE

(Up to 180,000 Btuh only)

Acme Industries, Inc., Jackson, Mich.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Condenser Service & Engineering Co., Inc., Hoboken, N. J.
 Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.
 Devine Mfg. Co., J. P., Div. of H. K. Porter Co., Inc., Pittsburgh, Pa.
 Doyle & Roth Mfg. Co., Brooklyn, N. Y.
 Frick Co., Waynesboro, Pa.
 Halstead & Mitchell, Pittsburgh, Pa.
 Heat-X Inc., Subsidiary of Dunham-Bush Inc., Brewster, N. Y.
 Howard Iron Works & Alberger Heater Div., Buffalo, N. Y.
 Lehigh Mfg. Co., Div. of Lehigh, Inc., Easton, Pa.
 Nooter Corp., St. Louis, Mo.
 Standard Refrigeration Co., Chicago, Ill.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 XL Refrigerating Co., Chicago, Ill.
 York Div. of Borg-Warner Corp., York, Pa.

CONDENSING UNITS

See Unitary Air Conditioners, Summer, Condensing Unit

CONDITIONERS, WATER

American Sand-Banum Co., Inc., Merrick, N. Y.
Ampion Corp., Long Island City, N. Y.
Algon Laboratories, Inc., Clifton, N. J.
Calgon Co., Div of Hagan Chemicals & Controls, Inc., Pittsburgh, Pa.
Carolina Aniline & Extract Co., Inc., Charlotte, N. C.
City Chemical Corp., New York, N. Y.
Crystalator Corp., Green Bay, Wis. (For humidifiers)
Dow Chemical Co., Midland, Mich.
Evis Mfg. Co., Chicago, Ill. (Physical)
Garman Co., Inc., St. Louis, Mo.
Lester Laboratories, Inc., Atlanta, Ga.
Metropolitan Refining Co., Inc., Long Island City, N. Y.
Morheat Corp., Cincinnati, O.
Nalco Chemical Co., Chicago, Ill.
North American Mogul Products Co., Cleveland, O.
Oakite Products, Inc., New York, N. Y.
Packard Water Conditioners, Inc., Jacksonville, Fla.
Permutit Co., Div. of Pfaunder Permutit Inc., New York N. Y.
Schaefer Chemical Products Co., Saginaw, Mich.
Skuttle Mfg. Co., Milford, Mich. (For humidifiers)
Stiles Karlsonite Corp., Waukegan, Ill.
Virginia Smelting Co., West Norfolk, Va.

CONDUCTOR PIPE AND FITTINGS

See Pipe and Fittings, Conductor

CONNECTIONS, DUCT, FLEXIBLE

Airo Industries, Los Angeles, Calif. (Canvas, asbestos, neo-prene)
Cain Mfg. Inc., Birmingham, Ala.
Champion Furnace Pipe Co., Peoria, Ill.
Duro-Dyne Corp., New Hyde Park, L. I., N. Y.
Elgen Mfg. Corp., Long Island City, N. Y. (Neoprene)
Nicolet Industries, Inc., Florham Park, N. J.
St. Clair Rubber Co., Detroit, Mich. (Fiberglass)
United States Rubber Co., New York, N. Y. (Asbestos, canvas)
Ventfabrics, Inc., Chicago, Ill. (Fabric)
Wilson, Inc., Grant, Chicago, Ill. (Asbestos, canvas, neoprene, metal and fabrics)

CONNECTORS, METAL, FOR METAL DUCTS

Acme Furnace Fitting Co., Chicago, Ill.
Acme Mfg. Co., Philadelphia, Pa.
Armstrong Fittings Co., Des Moines, Ia.
Carolina Blower Co., Inc., Greensboro, N. C.
Champion Furnace Pipe Co., Peoria, Ill.
Corbman Bros., Inc., Philadelphia, Pa.
Inland Steel Products Co., Milwaukee, Wis.
Ralph Mfg. Co., Inc., Wadsworth, O.
Snappy Inc., Detroit Lakes, Minn.

CONSTANT LEVEL FLOAT VALVES

See Controls, Fuel Oil Metering

CONTROL PANELS

See Boards and Panels, Control

CONTROL, SAFETY, GAS FLOW

Baso Inc., Milwaukee, Wis.
Dewey Gas Furnace Co., Detroit, Mich.
General Controls Co., Glendale, Calif.
Grayson Controls Div., Robertshaw-Fulton Controls Co., Long Beach, Calif.
Robertshaw-Fulton Controls Co., Richmond, Va.
White-Rodgers Co., St. Louis, Mo.

CONTROL SWITCHES FOR SHEET METAL WORKING EQUIPMENT

American Actuator Corp., Stamford, Conn.
Arrow-Hart & Hegeman Electric Co., Hartford, Conn.
Robertshaw-Fulton Controls Co., Richmond, Va.

CONTROLS, BLOWER, AIR

Morrison Products, Inc., Cleveland, O.

CONTROLS, BLOWER, AUTOMATIC SPEED CHANGING

Airgard Mfg. Co., Chicago, Ill.
National Modulation Co., St. Paul, Minn.

CONTROLS, COMBINATION FAN AND LIMIT, LINE OR LOW VOLTAGE

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
Automatic Devices Div. of American Machine & Metals, Inc., Sellersville, Pa.
Cam-Stat Inc., Div. Paul Henry Co., Los Angeles, Calif.
Columbus Electric Mfg. Co., Columbus, O.
Controls Div. of American-Standard, Detroit, Mich.
Cook Electric Co., Chicago, Ill.
General Controls Co., Glendale, Calif.
General Electric Co., Appliance Control Dept., Morrison, Ill.
Grayson Controls Div., Robertshaw-Fulton Controls Co., Long Beach, Calif.
Mercoid Corp., Chicago, Ill.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Penn Controls, Inc., Goshen, Ind.
Robertshaw-Fulton Controls Co., Richmond, Va.
Signet Controls, Portland, Ore.
Therm-O-Disc, Inc., Mansfield, Ohio.
White-Rodgers Co., St. Louis, Mo.

CONTROLS, COMBUSTION, LINE OR LOW VOLTAGE

Barber-Colman Co., Rockford, Ill.
Bristol Co., Waterbury, Conn.
Combustion Control Corp., Cambridge, Mass.
Crown Controls Co., Inc., New Bremen, Ohio.
Delco Appliance Div., General Motors Corp., Rochester, N. Y.
Eclipse Fuel Engineering Co., Rockford, Ill.
General Controls Co., Glendale, Calif.
General Electric Co., Appliance Control Dept., Morrison, Ill.
Hays Corp., Michigan City, Ind.
Mercoid Corp., Chicago, Ill.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Penn Controls, Inc., Goshen, Ind.
Shallcross Controls, Inc., Markesan, Wis.
Signet Controls, Portland, Ore.
White-Rodgers Co., St. Louis, Mo.

CONTROLS, DRAFT DAMPER, ELECTRICAL

Automatic Temperature Control Co., Inc., Philadelphia, Pa.
Barber-Colman Co., Rockford, Ill.
Crown Controls Co., Inc., New Bremen, Ohio.
Defender Instrument & Regulator Co., Boody, Ill.
General Controls Co., Glendale, Calif.
Heat-Timer Corp., New York, N. Y.
Kol-Master Corp., Oregon, Ill.
Mercoid Corp., Chicago, Ill.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Penn Controls, Inc., Goshen, Ind.
Robertshaw-Fulton Controls Co., Richmond, Va.
White Mfg. Co., St. Paul, Minn.
Young Regulator Co., Cleveland, O.

CONTROLS, DUCT DAMPER, MODULATING OR PROPORTIONING

Barber-Colman Co., Rockford, Ill.
Bristol Co., Waterbury, Conn.

Crown Controls Co., Inc., New Bremen, O.
 Econo Products Co., Div. of Viking Instruments, East Haddam, Conn.
 General Controls Co., Glendale, Calif.
 Hays Corp., Michigan City, Ind.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 New England Gear Works, Southington, Conn.
 White-Rodgers Co., St. Louis, Mo.

CONTROLS, DUCT DAMPER, TWO POSITION

Barber-Colman Co., Rockford, Ill.
 Bristol Co., Waterbury, Conn.
 Crown Controls Co., Inc., New Bremen, Ohio.
 General Controls Co., Glendale, Calif.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Morrison Products, Inc., Cleveland, O.
 Robertshaw-Fulton Controls Co., Richmond, Va.
 Young Regulator Co., Cleveland, O.

CONTROLS, FAN

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
 Allen-Bradley Co., Milwaukee, Wis.
 Automatic Devices Div. of American Machine & Metals, Inc., Sellersville, Pa.
 Barber-Colman Co., Rockford, Ill.
 Cam-Stat, Inc., Div. Paul Henry Co., Los Angeles, Calif.
 Clark Controller Co., Cleveland, Ohio.
 Controls Div. of American-Standard, Detroit, Mich.
 General Controls Co., Glendale, Calif.
 General Electric Co., Appliance Control Dept., Morrison, Ill.
 Grayson Controls Div., Robertshaw-Fulton Controls Co., Long Beach, Calif.
 McCorkle Co., D. H., Berkeley, Calif.
 McLarty Systems, Battle Creek, Mich.
 Mercoid Corp., Chicago, Ill.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 Robertshaw-Fulton Controls Co., Richmond, Va.
 Signet Controls, Portland, Ore.
 Spencer Thermostat Div. Metals & Controls Corp., Attleboro, Mass.
 Thermo-O-Disc, Inc., Mansfield, O.
 United Electric Controls Co., Watertown, Mass.
 White-Rodgers Co., St. Louis, Mo.

CONTROLS, FUEL OIL, METERING VALVES, GRAVITY FLOW

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
 (Electric and manual)
 Controls Div. of American-Standard, Detroit, Mich.
 (Electric and manual)
 General Controls Co., Glendale, Calif.
 Montgomery Products Co., Lansing, Mich.

CONTROLS, GAS, COMBINATION (PRESSURE REGULATOR, SAFETY PILOT, SOLENOID VALVE AND MAIN LINE SHUTOFF VALVE)

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
 Baso Inc., Milwaukee, Wis.
 Controls Div. of American-Standard, Detroit, Mich.
 General Controls Co., Glendale, Calif.
 Grayson Controls Div., Robertshaw-Fulton Controls Co., Long Beach, Calif.
 McQuay-Norris Mfg. Co., St. Louis, Mo.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 Robertshaw-Fulton Controls Co., Richmond, Va.
 Thermac Co., Corona, Calif.
 White-Rodgers Co., St. Louis, Mo.

CONTROLS, HUMIDISTAT

Abbeon Supply Co., Jamaica, N. Y.
 Bahnsen Co., Winston-Salem, N. C.
 Barber-Colman Co., Rockford, Ill.

Bendix International Div., Bendix Aviation Corp., Export Sales & Service, New York, N. Y.
 Bristol Co., Waterbury, Conn.
 Fries Instrument Div., Bendix Aviation Corp., Baltimore, Md.
 General Controls Co., Glendale, Calif.
 General Electric Co., Appliance Control Dept., Morrison, Ill.
 H-B Instrument Co., Inc., Philadelphia, Pa.
 Hydrodynamics, Inc., Silver Spring, Md.
 Johnson Service Co., Milwaukee, Wis.
 Maid-O-Mist, Inc., Chicago, Ill.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 Powers Regulator Co., Skokie, Ill.
 Taylor Instrument Companies, Rochester, N. Y.
 Walton Laboratories, Inc., Irvington, N. J.

CONTROLS, LIMIT, LINE OR LOW VOLTAGE

Allen-Bradley Co., Milwaukee, Wis.
 Automatic Devices Div. of American Machine & Metals, Inc., Sellersville, Pa.
 Barber-Colman Co., Rockford, Ill.
 Cam-Stat Inc., Div. Paul Henry Co., Los Angeles, Calif.
 Controls Div. of American-Standard, Detroit, Mich.
 Crown Controls Co., Inc., New Bremen, Ohio.
 Daystrom-Weston Sales Div., Daystrom Inc., Newark, N. J.
 General Controls Co., Glendale, Calif.
 General Electric Co., Appliance Control Dept., Morrison, Ill.
 Grayson Controls Div., Robertshaw-Fulton Controls Co., Long Beach, Calif.
 McCorkle Co., D. H., Berkeley, Calif.
 Mercoid Corp., Chicago, Ill.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 Robertshaw-Fulton Controls Co., Richmond, Va.
 Signet Controls, Portland, Ore.
 Spencer Thermostat Div. Metals & Controls Corp., Attleboro, Mass.
 Thermo-O-Disc, Inc., Mansfield, Ohio.
 United Electric Controls Co., Watertown, Mass.
 Westinghouse Electric Corp., Pittsburgh, Pa.
 White-Rodgers Co., St. Louis, Mo.

CONTROLS, PILOT, GAS BURNER

American Control Co., Compton, Calif.
 Baso Inc., Milwaukee, Wis.
 Continental Instrument Co., Cleveland, Ohio.
 Drying Systems Co., Chicago, Ill.
 Eclipse Fuel Engineering Co., Rockford, Ill.
 General Controls Co., Glendale, Calif.
 Grayson Controls Div., Robertshaw-Fulton Controls Co., Long Beach, Calif.
 Mercoid Corp., Chicago, Ill.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Modern Lighters, Inc., South Lyon, Mich.
 Penn Controls, Inc., Goshen, Ind.
 Roberts-Gordon Appliance Corp., Buffalo, N. Y.
 Robertshaw-Fulton Controls Co., Richmond, Va.
 Titan Valve & Mfg. Co., Cleveland, Ohio.
 White-Rodgers Co., St. Louis, Mo.

CONTROLS, PRESSURE, REFRIGERATING

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
 Allen-Bradley Co., Milwaukee, Wis.
 Automatic Control Co., St. Paul, Minn.
 Barber-Colman Co., Rockford, Ill.
 Barksdale Valves, Los Angeles, Calif.
 Controls Div. of American-Standard, Detroit, Mich.
 Cook Electric Co., Chicago, Ill.
 Marsh Corp., Jas. P., Skokie, Ill.
 Mercoid Corp., Chicago, Ill.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 Ranco Inc., Columbus, Ohio.
 Soreng Div., Controls Co. of America, Schiller Park, Ill.
 United States Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.
 White-Rodgers Co., St. Louis, Mo.

CONTROLS, RELAYS, ELECTRICAL

AEMCo., Inc., Mankato, Minn.
Allen-Bradley Co., Milwaukee, Wis.
Argo Industries, Inc., Hartford, Conn.
Arrow-Hart & Hegeman Electric Co., Hartford, Conn.
Automatic Switch Co., Florham Park, N. J.
Automatic Timing & Controls, Inc., King of Prussia, Pa.
Barber-Colman Co., Rockford, Ill.
Baso Inc., Milwaukee, Wis.
Better Engineered Controls, Los Angeles, Calif.
Clark Controller Co., Cleveland, Ohio.
Controls Div. of American-Standard, Detroit, Mich.
Cramer Co., Inc., R. W., Centerbrook, Conn.
Cutler-Hammer, Inc., Milwaukee, Wis.
Daystrom-Weston Sales Div., Daystrom Inc., Newark, N. J.
General Controls Co., Glendale, Calif.
General Electric Co., Apparatus Sales Offices, Schenectady, N. Y.
General Electric Co., Appliance Control Dept. Morrison, Ill.
Guardian Electric Mfg. Co., Chicago, Ill.
H-B Instrument Co., Philadelphia, Pa.
Hart Mfg. Co., Hartford, Conn.
Hydrodynamics, Inc., Silver Spring, Md.
McCorkle Co., D. H., Berkeley, Calif.
Mercoide Corp., Chicago, Ill.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Monitor Controller, Rockland, Mass.
Penn Controls, Inc., Goshen, Ind.
Philadelphia Thermometer Co., Philadelphia, Pa.
Precision Thermometer & Instrument Co., Philadelphia, Pa.
Reynolds Electric Co., River Grove, Ill.
Soreng Div., Controls Co. of America, Schiller Park, Ill.
Square D Co., Industrial Controller Div., Milwaukee, Wis.
Ward Leonard Electric Co., Mt. Vernon, N. Y.
Westinghouse Electric Corp., Pittsburgh, Pa.
White-Rodgers Co., St. Louis, Mo.
Wiegand Co., Edwin L., Pittsburgh, Pa.
Zenith Electric Co., Chicago, Ill.

CONTROLS, SAFETY ALARM

See Alarms, Heating Plant Failure

CONTROLS, SWITCHES, MAGNETIC

ACEC Electric Corp., New York, N. Y.
Allen-Bradley Co., Milwaukee, Wis.
Arrow-Hart & Hegeman Electric Co., Hartford, Conn.
Automatic Electric Mfg. Co., Mankato, Minn.
Automatic Switch Co., Florham Park, N. J.
Barber-Colman Co., Rockford, Ill.
Clark Controller Co., Cleveland, Ohio.
Cutler-Hammer, Inc., Milwaukee, Wis.
Electric Controller & Mfg. Co., Cleveland, Ohio.
Furnas Electric Co., Batavia, Ill.
General Controls Co., Glendale, Calif.
General Electric Co., Apparatus Sales Offices, Schenectady, N. Y.
Guardian Electric Mfg. Co., Chicago, Ill.
H-B Instrument Co., Philadelphia, Pa.
Hart Mfg. Co., Hartford, Conn.
Mercoide Corp., Chicago, Ill.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Monitor Controller, Rockland, Mass.
Palmer Electric Co., Chicago, Ill.
Penn Controls, Inc., Goshen, Ind.
Soreng Div., Controls Co. of America, Schiller Park, Ill.
Square D Co., Indus. Controller Div., Milwaukee, Wis.
Ward Leonard Electric Co., Mt. Vernon, N. Y.
Westinghouse Electric Corp., Pittsburgh, Pa.
White-Rodgers Co., St. Louis, Mo.
Wiegand Co., Edwin L., Pittsburgh, Pa.
Zenith Electric Co., Chicago, Ill.

CONTROLS, SWITCHES, MANUAL

ACEC Electric Corp., New York, N. Y.
Allen-Bradley Co., Milwaukee, Wis.
Allis-Chalmers Mfg. Co., Milwaukee, Wis.
Arrow-Hart & Hegeman Electric Co., Hartford, Conn.
Barber-Colman Co., Rockford, Ill.
Better Engineered Controls, Los Angeles, Calif.
Clark Controller Co., Cleveland, Ohio.

Cutler-Hammer, Inc., Milwaukee, Wis.
Furnas Electric Co., Batavia, Ill.
General Controls Co., Glendale, Calif.
General Electric Co., Apparatus Sales Offices, Schenectady, N. Y.
Hart Mfg. Co., Hartford, Conn.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Soreng Div., Controls Co. of America, Schiller Park, Ill.
Square D Co., Indus. Controller Div., Milwaukee, Wis.
Westinghouse Electric Corp., Pittsburgh, Pa.
Wiegand Co., Edwin L., Pittsburgh, Pa.

CONTROLS, SWITCHES, TIME

AEMCo., Inc., Mankato, Minn.
Allen-Bradley Co., Milwaukee, Wis.
Automatic Devices Div. of American Machine & Metals, Inc., Sellersville, Pa.
Automatic Switch Co., Florham Park, N. J.
Automatic Timing & Controls, Inc., King of Prussia, Pa.
Barber-Colman Co., Rockford, Ill.
Bristol Co., Waterbury, Conn.
Clark Controller Co., Cleveland, Ohio.
Cramer Controls Corp., Centerbrook, Conn.
General Controls Co., Glendale, Calif.
General Electric Co., Apparatus Sales Offices, Schenectady, N. Y.
General Electric Co., Clock and Timer Dept., Ashland, Mass.
International Register Co., Chicago, Ill.
Mallory Co., Inc., P. R., Indianapolis, Ind.
Mercoide Corp., Chicago, Ill.
Miller-Harris Instrument Co., Milwaukee, Wis.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Paragon Electric Co., Two Rivers, Wis.
Photoswitch Div., Electronics Corp. of America, Cambridge, Mass.
R. B. Enterprises, Inc., Detroit, Mich.
Reliance Automatic Lighting Co., Racine, Wis.
Reynolds Electric Co., River Grove, Ill.
Rhodes, Inc., M. H., Hartford, Conn.
Soreng Div., Controls Co. of America, Schiller Park, Ill.
Telechron, Inc., Ashland, Mass.
Tork Time Controls Inc., Mt. Vernon, N. Y.
Westinghouse Electric Corp., Pittsburgh, Pa.
West Wind Corp., Seattle, Wash.
White-Rodgers Co., St. Louis, Mo.
Zenith Electric Co., Chicago, Ill.

CONTROLS, THERMOSTATIC, HEAT PUMP

Ranco Inc., Columbus, O.

CONTROLS, THERMOSTATS, CLOCK, DAY AND NIGHT

Automatic Devices Div. of American Machine & Metals, Inc., Sellersville, Pa.
Barber-Colman Co., Rockford, Ill.
Crown Controls Co., Inc., New Bremen, Ohio.
General Controls Co., Glendale, Calif.
Heat-Timer Corp., New York, N. Y.
Miller-Harris Instrument Co., Milwaukee, Wis.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Sarcotherm Controls, Inc., New York, N. Y.
Tork Time Controls Inc., Mt. Vernon, N. Y.

CONTROLS, THERMOSTATS, COMBINATION HEATING AND COOLING

Automatic Devices Div. of American Machine & Metals, Inc., Sellersville, Pa.
Barber-Colman Co., Rockford, Ill.
Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
Controls Div. of American-Standard, Detroit, Mich.
Fulton Sylphon Div., Robertshaw-Fulton Controls Co., Knoxville, Tenn.
General Controls Co., Glendale, Calif.
General Electric Co., Appliance Control Dept., Morrison, Ill.

Grayson Controls Div., Robertshaw-Fulton Controls Co., Long Beach, Calif.
 Metals & Controls Div., Texas Instruments Inc., Versailles, Ky.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 Powers Regulator Co., Skokie, Ill.
 Roberson Inc., Seattle, Wash.
 Robertshaw-Fulton Controls Co., Richmond, Va.
 Signet Controls, Portland, Ore.
 White-Rodgers Co., St. Louis, Mo.

CONTROLS, THERMOSTATS, DOMESTIC WATER HEATER

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
 American Control Co., Compton, Calif.
 Cam-Stat Inc., Div. Paul Henry Co., Los Angeles, Calif.
 Deutsch Controls Corp., Los Angeles, Calif.
 General Controls Co., Glendale, Calif.
 Grayson Controls Div., Robertshaw-Fulton Controls Co., Long Beach, Calif.
 Hart Mfg. Co., Hartford, Conn.
 Hydrodynamics, Inc., Silver Spring, Md.
 Hynes & Cox Electric Corp., Burnt Hills, N. Y.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Modern Controls Corp., Centerline, Mich.
 Penn Controls, Inc., Goshen, Ind.
 Powers Regulator Co., Skokie, Ill.
 Robertshaw-Fulton Controls Co., Richmond, Va.
 Therm-O-Disc, Inc., Mansfield, Ohio.
 Titan Valve & Mfg. Co., Cleveland, Ohio.
 Westinghouse Electric Corp., Pittsburgh, Pa.
 White-Rodgers Co., St. Louis, Mo.

CONTROLS, THERMOSTATS, ELECTRIC RESISTANCE HEATING

Barber-Colman Co., Rockford, Ill.
 Berko Electric Mfg. Corp., Jamaica, N.Y.
 Cavalier Corp., Electric Heating Div., Chattanooga, Tenn.
 Ceilheat, Inc., Knoxville, Tenn.
 Emerson Electric Mfg. Co., St. Louis, Mo.
 Everwarm, Inc., Knoxville, Tenn.
 Fulton Sylphon Div., Robertshaw-Fulton Controls Co., Knoxville, Tenn.
 General Controls Co., Glendale, Calif.
 General Electric Co., Appliance Control Dept., Morrison, Ill.
 General Electric Co., Wiring Devices Dept., Providence, R. I.
 Mears Electric Controls, Swan Island, Portland, Ore.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 Radiant Electric Heat Co., Centerville, Iowa
 Roberson Inc., Seattle, Wash.
 Robertshaw-Fulton Controls Co., Richmond, Va.
 Sunwarm, Inc., Kingsport, Tenn.
 Swan Mfg. Co., Vancouver, Wash.
 White-Rodgers Co., St. Louis, Mo.
 Wiegand Co., Edwin L., Pittsburgh, Pa.
 Wilcolator Co., Elizabeth, N. J.

CONTROLS, THERMOSTATS, ELECTRONIC

Barber-Colman Co., Rockford, Ill.
 Penn Controls, Inc., Goshen, Ind.

CONTROLS, THERMOSTATS, HEAT ACCELERATED OR ANTICIPATING

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
 Barber-Colman Co., Rockford, Ill.
 Baso Inc., Milwaukee, Wis.
 Cam-Stat Inc., Div. Paul Henry Co., Los Angeles, Calif.
 Controls Div. of American-Standard, Detroit, Mich.
 Crown Controls Co., Inc., New Bremen, Ohio.
 Fulton Sylphon Div. Robertshaw-Fulton Controls Co., Knoxville, Tenn.
 General Controls Co., Glendale, Calif.
 General Electric Co., Appliance Control Dept., Morrison, Ill.
 Grayson Controls Div., Robertshaw-Fulton Controls Co., Long Beach, Calif.
 H-B Instrument Co., Philadelphia, Pa.
 McCorkle Co., D. H., Berkeley, Calif. (Anticipating)
 Metals & Controls Div., Texas Instruments Inc., Versailles, Ky.

Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 Robertshaw-Fulton Controls Co., Richmond, Va.
 Sarcotherm Controls, Inc., New York, N. Y.
 Signet Controls, Portland, Ore.
 White-Rodgers Co., St. Louis, Mo.

CONTROLS, THERMOSTATS, LINE OR LOW VOLTAGE

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
 Allen-Bradley Co., Milwaukee, Wis.
 Barber-Colman Co., Rockford, Ill.
 Baso Inc., Milwaukee, Wis.
 Cam-Stat Inc., Div. Paul Henry Co., Los Angeles, Calif.
 Controls Div. of American-Standard, Detroit, Mich.
 Crown Controls Co., Inc., New Bremen, Ohio.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Fenwal Inc., Ashland, Mass.
 Fulton Sylphon Div., Robertshaw-Fulton Controls Co., Knoxville, Tenn.
 General Controls Co., Glendale, Calif.
 General Electric Co., Appliance Control Dept., Morrison, Ill.
 Grayson Controls Div., Robertshaw-Fulton Controls Co., Long Beach, Calif.
 H-B Instrument Co., Philadelphia, Pa.
 Hart Mfg. Co., Hartford, Conn.
 Hydrodynamics, Inc., Silver Spring, Md.
 Kingston-National Controls, Div. Kingston Industries, Inc., Medfield, Mass.
 Maxitrol Co., Southfield, Mich.
 McCorkle Co., D. H., Berkeley, Calif.
 Mercoid Corp., Chicago, Ill.
 Metals & Controls Div., Texas Instruments Inc., Versailles, Ky.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 Roberson Inc., Seattle, Wash.
 Robertshaw-Fulton Controls Co., Richmond, Va.
 Sarco Co., Inc., New York, N. Y.
 Sarcotherm Controls, Inc., New York, N. Y.
 Therm-O-Disc, Inc., Mansfield, Ohio.
 United Electric Controls Co., Watertown, Mass.
 Westinghouse Electric Corp., Pittsburgh, Pa.
 White-Rodgers Co., St. Louis, Mo.
 Wiegand Co., Edwin L., Pittsburgh, Pa.

CONTROLS, THERMOSTATS, MODULATING OR PROPORTIONING

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
 Atlas Valve Co., Newark, N. J.
 Automatic Devices Div. of American Machine & Metals, Inc., Sellersville, Pa.
 Barber-Colman Co., Rockford, Ill.
 Controls Div. of American-Standard, Detroit, Mich.
 Crown Controls Co., Inc., New Bremen, O.
 Fenwal, Inc., Ashland, Mass.
 Fulton Sylphon Div., Robertshaw-Fulton Controls Co., Knoxville, Tenn.
 General Controls Co., Glendale, Calif.
 Johnson Service Co., Milwaukee, Wis.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Payne Beverly Mfg. Co., Beverly Hills, Calif.
 Powers Regulator Co., Skokie, Ill.
 Robertshaw-Fulton Controls Co., Richmond, Va.
 White-Rodgers Co., St. Louis, Mo.

CONTROLS, THERMOSTATS, TWO STAGE, FOR COOLING

Automatic Devices Div. of American Machine & Metals, Inc., Sellersville, Pa.
 Barber-Colman Co., Rockford, Ill.
 General Controls Co., Glendale, Calif.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 Roberson Inc., Seattle, Wash.
 United Electric Controls Co., Watertown, Mass.

CONTROLS, THERMOSTATS, WEATHER COMPENSATING

Airtemp Div., Chrysler Corp., Dayton, O.

Automatic Devices Div. of American Machine & Metals, Inc., Sellersville, Pa.
 Barber-Colman Co., Rockford, Ill.
 Butte Brass and Controls Co., Butte, Mont.
 General Controls Co., Glendale, Calif.
 General Electric Co., Appliance Control Dept., Morrison, Ill.
 Heat-Timer Corp., New York, N. Y.
 Illinois Engineering Co., Chicago, Ill.
 Johnson Service Co., Milwaukee, Wis.
 McLarty Systems, Battle Creek, Mich.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Powers Regulator Co., Skokie, Ill.
 Sarcotherm Controls, Inc., New York, N. Y.
 United Electric Controls Co., Watertown, Mass.
 White-Rodgers Co., St. Louis, Mo.

CONTROL SYSTEMS, ACCESSORIES

Terminals, terminal blocks, connectors, ignition cable, thermostat cable, etc.

Allen-Bradley Co., Milwaukee, Wis. (Terminal blocks)
 Barber-Colman Co., Rockford, Ill.
 Buchanan Electric Products Corp., Hillside, N. J. (Terminal blocks, connectors)
 Plastic Wire & Cable Corp., Jewett City, Conn. (Thermostat cable)

CONTROL SYSTEMS, FUEL MODULATING

Maxitrol Co., Smithfield, Mich.
 White-Rodgers Co., St. Louis, Mo.

CONTROL SYSTEM KITS, FLAME FAILURE

American District Telegraph Co., New York, N. Y.
 Barber-Colman Co., Rockford, Ill.
 Bristol Co., The, Waterbury, Conn.
 Canton Stoker Corp., Canton, Ohio.
 Combustion Control Div., Electronics Corp. of America, Cambridge, Mass.
 Eclipse Fuel Engineering Co., Rockford, Ill.
 Electronics Div., Iron Fireman Mfg. Co., Portland, Ore.
 Fuelguard Co., Dallas, Texas.
 General Controls Co., Glendale, Calif.
 General Electric Co., Appliance Control Dept., Morrison, Ill.
 Mercoid Corp., Chicago, Ill.
 Mettler Co., Inc., The, Los Angeles, Calif.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 Wheelco Instruments Div., Barber-Colman Co., Rockford, Ill.
 White-Rodgers Co., St. Louis, Mo.

CONTROL SYSTEM KITS, GAS BURNER, COMPLETE ASSEMBLY

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
 Controls Div. of American-Standard, Detroit, Mich.
 Eclipse Fuel Engineering Co., Rockford, Ill.
 General Controls Co., Glendale, Calif.
 Mettler Co., Inc., Los Angeles, Calif.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 R. B. Enterprises, Inc., Detroit, Mich.
 Wheelco Instruments Div., Barber-Colman Co., Rockford, Ill.
 White-Rodgers Co., St. Louis, Mo.

CONTROL SYSTEM KITS, GRAVITY FURNACE, HAND-FIRED, COMPLETE ASSEMBLY

Barber-Colman Co., Rockford, Ill.
 Bearlee Products Co., Green Bay, Wis.
 Crown Controls Co., New Bremen, Ohio.
 Defender Instrument & Regulator Co., Boody, Ill.
 General Controls Co., Glendale, Calif.
 Mercoid Corp., Chicago, Ill.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.

CONTROL SYSTEM KITS, HEATING, VENTILATING, AND AIR CONDITIONING, ELECTRICAL

Barber-Colman Co., Rockford, Ill.
 Better Engineered Controls, Los Angeles, Calif.
 Clark Controller Co., Cleveland, Ohio.
 Crise Controls Div., Acro Mfg. Co., Columbus, Ohio.
 General Controls Co., Glendale, Calif.
 General Electric Co., Appliance Control Dept., Morrison, Ill.
 Mercoid Corp., Chicago, Ill.
 Midwest Automatic Control Co., Des Moines, Iowa.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 White-Rodgers Co., St. Louis, Mo.

CONTROL SYSTEM KITS, OIL BURNER, COMPLETE ASSEMBLY

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
 Controls Div. of American-Standard, Detroit, Mich.
 General Controls Co., Glendale, Calif.
 General Electric Co., Appliance Control Dept., Morrison, Ill.
 Heat-Timer Corp., New York, N. Y.
 Mercoid Corp., Chicago, Ill.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 Shallcross Controls Inc., Markesan, Wis.
 Wheelco Instruments Div., Barber-Colman Co., Rockford, Ill.
 White-Rodgers Co., St. Louis, Mo.

CONTROL SYSTEM KITS, STOKER, COMPLETE ASSEMBLY

Defender Instrument & Regulator Co., Boody, Ill.
 General Electric Co., Appliance Control Dept., Morrison, Ill.
 Heat-Timer Corp., New York, N. Y.
 Mercoid Corp., Chicago, Ill.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Palmer Electric Co., Chicago, Ill.
 Shallcross Controls Co., Inc., Markesan, Wis.

CONTROL SYSTEM KITS, WINTER AIR CONDITIONING FURNACE, HAND FIRED, COMPLETE ASSEMBLY

Barber-Colman Co., Rockford, Ill.
 Crown Controls Co., Inc., New Bremen, Ohio.
 General Electric Co., Appliance Control Dept., Morrison, Ill.
 Mercoid Corp., Chicago, Ill.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 White-Rodgers Co., St. Louis, Mo.

CONTROL SYSTEM KITS, ZONE, COMPLETE ASSEMBLY

Barber-Colman Co., Rockford, Ill.
 Better Engineered Controls, Los Angeles, Calif.
 Econo Products Co., Div. of Viking Instruments, East Haddam, Conn.
 General Controls Co., Glendale, Calif.
 General Electric Co., Appliance Control Dept., Morrison, Ill.
 Heat-Timer Corp., New York, N. Y.
 Johnson Service Co., Milwaukee, Wis.
 Mercoid Corp., Chicago, Ill.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 Perfection Div., Hupp Corp., Cleveland, O.
 White-Rodgers Co., St. Louis, Mo.
 Young Regulator Co., Cleveland, O.

COOLING COILS

See Coils, Cooling

COOLING TOWERS

See Towers, Cooling

COOLING UNITS

See Unitary Air Conditioners

COPPER PIPE

See Tubing, Copper

COPPER SHEETS

See Sheets, Metal, Copper

COPPER TUBE FITTINGS

See Fittings, Copper Tube

COUPLINGS, TUBING, REFRIGERANT, RUPTURE

For Installing Factory Charged Refrigeration Equipment

Superior Valve and Fittings Co., Pittsburgh, Pa.
Titeflex, Inc., Springfield, Mass.

COVERS, WINDOW AIR CONDITIONER

See Protectors, Window Air Conditioner

CRADLES, COIL

See Reels and Cradles, Sheet Metal

CRAWLSPACE VENTILATORS

See Ventilators, Crawlspace

CRIMPING MACHINES

See Machines, Crimping

CROP DRYERS

See Dryers, Crop, Furnace Type

CURBS, ROOF VENTILATOR

Cook Co., Loren, Berea, O.
Jenn Air Products Co., Indianapolis, Ind.
Penn Ventilator Co., Inc., Philadelphia, Pa.
Swartwout Fabricators, Inc., Kokomo, Ind.
Van Noorden Co., E., Boston, Mass.
Western Engineering & Mfg. Co., Venice, Calif.

CURTAIN WALL PANELS

See Panels, Curtain Wall

DAMPER ASSEMBLIES FOR FURNACE PLENUMS

Rheem Mfg. Co., Chicago, Ill.
Ryniker Steel Products Co., Billings, Mont.
Waterman-Waterbury Co., Minneapolis, Minn.

DAMPER, DUCT, REGULATOR SETS

See Regulators, Duct Damper Sets

DAMPER HARDWARE

See Hardware, Damper

DAMPER LINKAGE SETS

See Sets, Damper Linkage

DAMPER MOTORS

See Controls, Draft Damper

DAMPERS, BACK DRAFT

See Louvers and Shutters

DAMPERS, DIFFUSER

Air Control Products, Inc., Coopersville, Mich.
Air Devices, Inc., New York, N. Y.
Air Distribution Products Co., Los Angeles, Calif.
Air-Factors, Inc., Monrovia, Calif.
American Gas Co., Cleveland, O.
Anemostat Corp. of America, New York, N. Y.
Barber-Colman Co., Rockford, Ill.
Gallagher Co., Omaha, Nebr.
General Air Products Corp., Stirling, N. J.
Hart & Cooley Mfg. Co., Holland, Mich.
Krueger Air Conditioning Corp., Tucson, Ariz.
Leigh Industries Inc., Asheville, N.C.
Lima Register Co., Lima, O.
Smith Co., J. B., Philadelphia, Pa.
Titus Mfg. Corp., Waterloo, Ia.
Tuttle & Bailey Div. of Allied Thermal Corp., New Britain, Conn.
United States Register Co., Battle Creek, Mich.
Universal Diffuser Corp., Tuckahoe, N. Y.

DAMPERS, DRAFT, BAROMETRIC

Boston Machine Works Co., Lynn, Mass.
Cole-Sewell Engineering Co., St. Paul, Minn.
Combustion Equipment Co., Moline, Ill.
Field Control Div., Conco Engineering Works, Inc., Mendota, Ill.
Heatcrafters Manufacturers, Baileys Harbor, Wis.
Hotstream Heater Co., Cleveland, Ohio.
Juniper Elbow Co., Inc., Middle Village, L. I., N. Y.
Lima Register Co., Lima, O.
Mutual Mfg. Co., Flushing, N. Y.
Preferred Utilities Mfg. Corp., New York, N. Y.
Simplex Mfg. Co., Fond du Lac, Wis.
Steinen Mfg. Co., Wm., Newark, N. J.
Walker Mfg. & Sales Corp., St. Joseph, Mo.
Windmaster Div. of Lima Register Co., Lima, O.

DAMPERS, DRAFT, FIREPLACE

Adams Co., The, Dubuque, Ia.
Bennett-Ireland, Inc., Norwich, N. Y.
Donley Bros. Co., Cleveland, O.
Hohmann & Barnard, Inc., New York, N. Y.
Inland Steel Products Co., Milwaukee, Wis.
Majestic Co., Inc., Huntington, Ind.
Vega Industries, Inc., Syracuse, N. Y.

DAMPERS, DUCT

A-J Mfg. Co., Kansas City, Mo.
Acme Mfg. Co., Philadelphia, Pa.
Air Conditioning Products Co., Detroit, Mich.
Air-Factors, Inc., Monrovia, Calif.
Air & Refrigeration Corp., New York, N. Y.
American Warming & Ventilating Co., Toledo, O.
Anemostat Corp. of America, New York, N. Y.
Arex Co., Chicago, Ill.
Armstrong Fittings Co., Des Moines, Ia.
Berger Furnace Corp., Belle Vernon, Pa.
Carnes Corp., Verona, Wis.
Duro-Dyne Corp., Farmingdale, N. Y.
Elgo Shutter & Mfg. Co., Detroit, Mich.
General Air Products Corp., Stirling, N. J.
Hart & Cooley Mfg. Co., Holland, Mich.

Imperial Damper Co., New York, N. Y.
 Inland Steel Products Co., Milwaukee, Wis.
 Johnson Service Co., Milwaukee, Wis.
 Jordan & Co., Inc., Paul R., Indianapolis, Ind.
 Malco Products, Minneapolis, Minn.
 Maple City Furnace Co., Monmouth, Ill.
 Powers Regulator Co., Skokie, Ill.
 Seelye Craftsmen, Minneapolis, Minn.
 Senrac, Madison, Wis.
 Snappy Inc., Detroit Lakes, Minn.
 Thermotank, Inc., Air Products Div., Detroit, Mich. (For high velocity systems)
 Tuttle & Bailey Div. of Allied Thermal Corp., New Britain, Conn.
 United Sheet Metal Co., Inc., Columbus, O.
 United States Register Co., Battle Creek, Mich.
 Waterloo Register Co., Inc., Waterloo, Iowa.
 Williamson Co., The, Cincinnati, O.
 Young Regulator Co., Cleveland, O.

DAMPERS, FIRE (DUCT)

Air Conditioning Products Co., Detroit, Mich.
 Air-Factors, Inc., Monrovia, Calif.
 American Foundry & Furnace Co., Bloomington, Ill.
 American Warming & Ventilating Co., Toledo, O.
 Ammerman Co., Inc., Stillwater, Minn.
 Arex Co., Chicago, Ill.
 Imperial Damper Co., New York, N. Y.
 Jordan & Co., Inc., Paul R., Indianapolis, Ind.
 Seelye Craftsmen, Minneapolis, Minn.
 Senrac, Madison, Wis.
 Shoemaker Mfg. Co., Seattle, Wash.
 Union Damper Co., The, Union, Ill.
 United Sheet Metal Co., Inc., Columbus, O.
 Young Regulator Co., Cleveland, O.

DAMPERS, SMOKE PIPE

Acme Mfg. Co., Philadelphia, Pa.
 Adams Co., Dubuque, Iowa.
 Char-Gale Mfg. Co., Anoka, Minn.
 Corbman Bros., Inc., Philadelphia, Pa.
 Eselgroth & Co., Roselle, N. J.
 Henry Furnace Co., Medina, O.
 Hotstream Heater Co., Cleveland, Ohio.
 Howes-Woods Co., Cambridge, Mass.
 Inland Steel Products Co., Milwaukee, Wis.
 J & J Sheet Metal Co., Warren, Mich.
 Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Peerless Corp., Indianapolis, Ind.
 United States Register Co., Battle Creek, Mich.
 Walker Mfg. & Sales Corp., St. Joseph, Mo.
 Wheeling Corrugating Co., Wheeling, W. Va.
 Williamson Co., The, Cincinnati, O.

DAMPERS, STACK HEAD

Acme Furnace Fitting Co., Chicago, Ill.
 Acme Mfg. Co., Philadelphia, Pa.
 Aireflo Furnace Pipe Co., Brighton, Mich.
 American Warming & Ventilating Co., Toledo, O.
 Champion Furnace Pipe Co., Peoria, Ill.
 Corbman Bros., Inc., Philadelphia, Pa.
 Excelsior Steel Furnace Co., Chicago, Ill.
 J & J Sheet Metal Co., Warren, Mich.
 Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif.
 Truscon Steel Co., Youngstown, Ohio.
 Williamson Co., The, Cincinnati, O.

DAMPERS, WARM AIR PIPE

Acme Furnace Fitting Co., Chicago, Ill.
 Acme Mfg. Co., Philadelphia, Pa.
 Adelta Mfg. Co., Philadelphia, Pa.
 Aireflo Furnace Pipe Co., Brighton, Mich.
 Adams Co., Dubuque, Iowa.
 Armstrong Fittings Co., Des Moines, Ia.
 Buckeye Mfg. Inc., Columbus, Ohio.
 Champion Furnace Pipe Co., Peoria, Ill.

Char-Gale Mfg. Co., Anoka, Minn.
 Corbman Bros., Inc., Philadelphia, Pa.
 Duro-Dyne Corp., Farmingdale, N. Y.
 Excelsior Steel Furnace Co., Chicago, Ill.
 Gary Steel Products Corp., Gary, Ind.
 Hart & Cooley Mfg. Co., Holland, Mich.
 Henry Furnace Co., Medina, O.
 Inland Steel Products Co., Milwaukee, Wis.
 J & J Sheet Metal Co., Warren, Mich.
 Labeled Metal Products Corp., Broadview, Ill.
 Lennox Industries Inc., Marshalltown, Iowa
 Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif.
 Malco Products, Minneapolis, Minn.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Peerless Corp., Indianapolis, Ind.
 Ralph Mfg. Co., Inc., Wadsworth, Ohio.
 Severson Mfg. & Supply Co., Milwaukee, Wis.
 Standard Metal Fabricating Co., Omaha, Nebr.
 Thor Metal Products Co., Inc., Syracuse, N. Y.
 United States Register Co., Battle Creek, Mich.
 Wheeling Corrugating Co., Wheeling, W. Va.
 Williamson Co., The, Cincinnati, O.
 Young Regulator Co., Cleveland, O.

DECKING, ROOF, METAL

Airtherm Mfg. Co., St. Louis, Mo.
 Bowman Steel Corp., Pittsburgh, Pa.
 Fenestra Inc., Detroit, Mich.
 Inland Steel Products Co., Milwaukee, Wis.
 Mahon Co., R. C., Detroit, Mich.
 Penn Metal Co., Inc., Boston, Mass.
 Plasteel Products Corp., Washington, Pa.
 Republic Steel Corp., Cleveland, O.
 Reynolds Metals Co., Richmond, Va.
 Robertson Co., H. H., Pittsburgh, Pa.
 Truscon Div., Republic Steel Corp., Youngstown, O.
 United States Gypsum Co., Chicago, Ill.
 Walcon Corp., Ecorse, Mich.
 Wheeling Corrugating Co., Wheeling, W. Va.

DEHUMIDIFIERS, ABSORPTION AND ADSORPTION

Air Conditioning Engineering Co., Cambridge, Mass.
 Bryant Mfg. Co., Indianapolis, Ind. (Adsorption)
 Coughlan Co., G. N., West Orange, N. J.
 Desomatic Products Div., Atlantic Research Corp., Falls Church, Va.
 Dryomatic Corp., Alexandria, Va.
 Floridin Co., Tallahassee, Fla.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Kaufman Co., H. J., Detroit, Mich. (Absorption)
 Pittsburgh Lector dryer Co., Pittsburgh, Pa.
 Speco, Inc., Cleveland, O.
 Tamms Industries Co., Chicago, Ill.
 Universal Dynamics Corp., Arlington, Va.
 York Div. of Borg-Warner Corp., York, Pa.

DEHUMIDIFIERS, REFRIGERATING TYPE, PORTABLE

Albion Div., McGraw-Edison Co., Albion, Mich.
 Amana Refrigeration, Inc., Amana, Ia.
 Berns Air King Corp., Chicago, Ill.
 Blissfield Mfg. Co., Blissfield, Mich.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Dryomatic Corp., Alexandria, Va.
 Ebco Mfg. Co., Columbus, Ohio.
 Electrovent Fan & Mfg. Co., Chicago, Ill.
 Fedders-Quigan Corp., Maspeth, N. Y.
 Frigidaire Div., General Motors Corp., Dayton, O.
 Gibson Refrigerator Sales Corp., Sub. of Hupp Corp., Greenville, Mich.
 Haertel Co., Walter, Minneapolis, Minn.
 Heat Controller, Inc., Jackson, Mich.
 Kauffman Air Conditioning Co., St. Louis, Mo.
 Kelvinator Div., American Motors Corp., Detroit, Mich.
 RCA-Whirlpool, Central Home Air Conditioning Div., Whirlpool Corp., St. Joseph, Mich.
 Remington Air Conditioning Div., Remington Corp., Auburn, N. Y.
 Westinghouse Electric Corp., Major Appliance Div., Mansfield, O.

DEHYDRATORS, REFRIGERANT

A-P Controls Corp., Milwaukee, Wis.
Allin Mfg. Co., Chicago, Ill.
Ansul Chemical Co., Refrigeration Div., Marinette, Wis.
Eagle Chemical Co., Inc., Mobile, Ala.
Henry Valve Co., Melrose Park, Ill.
Highside Chemicals Inc., Clifton, N. J.
Imperial Brass Mfg. Co., Chicago, Ill.
Kenmore Machine Products, Inc., Lyons, N. Y.
McIntire Co., The, Livingston, N. J.
Mueller Brass Co., Port Huron, Mich.
Refrigeration Research, Inc., Brighton, Mich.
Remco, Inc., Zelienople, Pa.
Sporlan Valve Co., St. Louis, Mo.
Superior Valve and Fittings Co., Pittsburgh, Pa.
Wabash Corp., Chicago, Ill.

DEODORIZERS, FUEL OIL

S.O.S. Products Co., Inc., Brooklyn, N. Y.
Tankit Co., Inc., Newark, N. J.

DETECTORS, LEAK, REFRIGERANT

Airserco Mfg. Co., Pittsburgh, Pa.
Allin Mfg. Co., Chicago, Ill.
American Gas & Chemicals, Inc., Leak-Tec Div., New York, N. Y.
Bernz Co., Otto, Rochester, N. Y.
Calgon Co., Div. of Hagan Chemicals & Controls, Inc., Pittsburgh, Pa.
Flamort Chemical Co., San Francisco, Calif. (Liquid)
Gates & Co., Inc., George W., Franklin Sq., L. I., N. Y.
General Electric Co., Apparatus Sales Offices, Schenectady, N. Y.
Highside Chemicals Inc., Clifton, N. J.
Insto-Gas Corp., Detroit, Mich.
Justrite Mfg. Co., Chicago, Ill.
Kidde Mfg. Co., Inc., Bloomfield, N. J.
Lenk Mfg. Co., Franklin, Ky.
Linde Co., Div. Union Carbide Corp., New York, N. Y.
National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
Ould (USA) Ltd., John, Mt. Vernon, N. Y.
Turner Corp., Sycamore, Ill.
Vacuum-Electronics Corp., Plainview, L.I., N.Y.

DIES, PRESS BRAKE

(Also see Machines, Sheet Metal Working, Presses)

Bath Co., Cyril, Solon, O.
Cincinnati Shaper Co., Cincinnati, O.
Davis & Son Machine Works, Los Angeles, Calif.
Doelger & Kirsten, Inc., Milwaukee, Wis.
Dreis & Krump Mfg. Co., Chicago, Ill.
Fallsington Mfg. Co., Fallsington, Pa.
Niagara Machine & Tool Works, Buffalo, N. Y.
O'Neil-Irwin Mfg. Co., Lake City, Minn.
Punch Products Corp., Buffalo, N. Y.
Reiner & Campbell Co., Inc., Newark, N. J.
Service Machine Co., Inc., Elizabeth, N. J.
Taylor-Winfield Corp., Warren, O.
Valeron Corp., Press Brake Div., Addison, Ill.
Version Allsteel Press Co., Chicago, Ill.
Wales-Strippit Inc., Akron, N. Y.
Whitney Mfg. Co., W. A., Rockford, Ill.

DIES, PUNCH PRESS

Airo Industries, Los Angeles, Calif. (For dimple slots)
Allen Industries, Alva, Clinton, Mo.
Davis & Son Machine Works, Los Angeles, Calif.
Fallsington Mfg. Co., Fallsington, Pa.
O'Neil-Irwin Mfg. Co., Lake City, Minn.
Punch Products Corp., Buffalo, N. Y.
Service Machine Co., Inc., Elizabeth, N. J.
Tool Products Corp., North Tonawanda, N. Y.
Version Allsteel Press Co., Chicago, Ill.
Wales-Strippit Inc., Akron, N. Y.
Ward Machinery Co., Chicago, Ill.

DIFFUSERS, AIR, BASEBOARD

A & A Register Co., Cleveland, O.
Air Control Products, Inc., Coopersville, Mich.
Air Devices, Inc., New York, N. Y.
Air-Factors, Inc., Monrovia, Calif.
American Diffuser Co., Cleveland, O.
Auer Register Co., Cleveland, O.
Brandes Co., Madison, Wis.
Carnes Corp., Verona, Wis.
Char-Gale Mfg. Co., Anoka, Minn.
Coleman Co., Inc., Wichita, Kans.
Control Systems Co., Milwaukee, Wis. (Thermostatically controlled)
Dowagiac Steel Furnace Co., Dowagiac, Mich.
Fan-Air Co., Dowagiac, Mich.
Front Rank Mfg. Co., Div. Gross Aire Mfg. Co., St. Louis, Mo.
General Automatic Products Corp., Baltimore, Md.
General Electric Co., Air Conditioning Dept., Tyler, Tex.
Gerwin Industries, Inc., Thermo-Base Div., Michigan City, Ind.
Gross-Aire Mfg. Co., St. Louis, Mo.
H & N Sheet Metal Fabricating Co., Inc., Deer Lodge, Mont.
Hart & Cooley Mfg. Co., Holland, Mich.
Hayes Products Co., Portsmouth, Va.
Heating Assurance, Inc., Spokane, Wash.
Independent Register Co., Cleveland, O.
Krauser-Boyd, Inc., North Tonawanda, N. Y.
Kritzer Radiant Coils, Inc., Batavia, Ill.
Krueger Air Conditioning Corp., Tucson, Ariz.
Leigh Industries Inc., Asheville, N.C.
Lima Register Co., Lima, Ohio.
Lloyd Register & Grille, Toronto, Ont., Canada
Made-Rite Co., Inc., Newport, Ky.
Maurlee Co., Inc., Woodbury Hts., N. J.
Midco Register Corp., St. Paul, Minn.
Morrison Steel Products, Inc., Buffalo, N. Y.
National Grille & Register Co., Cleveland, O.
Patco Mfg. Co., Inc., Philadelphia, Pa.
Premier Furnace Co., Dowagiac, Mich.
Republic Products Co., Philadelphia, Pa.
Rock Island Register Co., Rock Island, Ill.
Ryniker Steel Products Co., Billings, Mont.
Smith Co., J. B., Philadelphia, Pa.
Standard Stamping & Perforating Co., Chicago, Ill.
Steel City Furnace Co., Springdale, Pa.
Sundstrom Pressed Steel, Chicago, Ill.
Titus Mfg. Corp., Waterloo, Iowa.
United States Register Co., Battle Creek, Mich.
Vulcan Radiator Co., Hartford, Conn.
Wellcome Engineering Co., Del., Clarendon Hills, Ill.
Woodside Engineering Co., Franklin Park, Ill.
York-Shipley, Inc., York, Pa.
Young Regulator Co., Cleveland, O.

DIFFUSERS, AIR, CEILING

A & A Register Co., Cleveland, Ohio.
A-J Mfg. Co., Kansas City, Mo.
Air Control Products, Inc., Coopersville, Mich.
Air Devices, Inc., New York, N. Y.
Air Distribution Products Co., Los Angeles, Calif.
Air-Factors, Inc., Monrovia, Calif.
Airguide Plastics Corp., Miami, Fla. (Nylon)
American Warming & Ventilating Co., Toledo, O.
Anemostat Corp. of America, New York, N. Y.
Arizona Maintenance Co., Tucson, Ariz.
Ashburn Supply Co., Culver City, Calif.
Auer Register Co., Cleveland, O.
Austin Engineering & Mfg. Co., Inc., Ysleta, Tex.
B-G Engineering Co., Houston, Tex.
Barber-Colman Co., Rockford, Ill.
Carnes Corp., Verona, Wis.
Char-Gale Mfg. Co., Anoka, Minn.
Coleman Co., Inc., Wichita, Kans.
Connor Engineering Corp., Danbury, Conn.
Controlair Mfg. Co., Los Angeles, Calif.
Demuth & Sons, Inc., Charles, Mineola, L. I., N. Y.
Dry Mfg. Co., Winters, Tex.
Felter Co., John, Houston, Tex.
Gallagher Co., Omaha, Nebr.
General Air Products Corp., Stirling, N. J.
Grant Air Products, Verona, N. J.
Hart & Cooley Mfg. Co., Holland, Mich.
Independent Register Co., Cleveland, O.
Jet-Heat, Inc., Englewood, N.J.
Krueger Air Conditioning Corp., Tucson, Ariz.

Leigh Industries Inc., Asheville, N.C.
 Lenly Mfg. Co., Inc., Los Angeles, Calif.
 Lima Register Co., Lima, Ohio.
 Maurlee Co., Inc., Woodbury Hts., N. J.
 Metal Industries, Inc., Clearwater, Fla.
 Midco Register Corp., St. Paul, Minn.
 Pyle-National Co., Multi-Vent Div., Chicago, Ill.
 Rhoads Engineering Corp., Culver City, Calif.
 Shoemaker Mfg. Co., Seattle, Wash.
 Smith Co., J. B., Philadelphia, Pa.
 Standard Stamping & Perforating Co., Chicago, Ill.
 Thermotank, Inc., Air Products Div., Detroit, Mich. (Plastic)
 Titus Mfg. Corp., Waterloo, Iowa.
 Tuttle & Bailey Div. of Allied Thermal Corp., New Britain, Conn.
 United Sheet Metal Co., Inc., Columbus, O.
 United States Register Co., Battle Creek, Mich.
 Universal Diffuser Corp., Tuckahoe, N. Y.
 Young Regulator Co., Cleveland, O.

DIFFUSERS, AIR, CONTINUOUS

Air Devices, Inc., New York, N.Y.
 Air-Factors, Inc., Monrovia, Calif.
 Barber-Colman Co., Rockford, Ill.
 Titus Mfg. Corp., Waterloo, Iowa
 United States Register Co., Battle Creek, Mich.
 Universal Diffuser Corp., Tuckahoe, N.Y.

DIFFUSERS, AIR, FLOOR

A & A Register Co., Cleveland, O.
 A-J Mfg. Co., Kansas City, Mo.
 Air Control Products, Inc., Coopersville, Mich.
 Air Devices, Inc., New York, N. Y.
 Air-Factors, Inc., Monrovia, Calif.
 American Diffuser Co. Cleveland, O.
 Auer Register Co., Cleveland, O.
 Carnes Corp., Verona, Wis.
 Char-Gale Mfg. Co., Anoka, Minn.
 Coleman Co., Inc., Wichita, Kans.
 Hart & Cooley Mfg. Co., Holland, Mich.
 Independent Register Co., Cleveland, O.
 Jet-Heat, Inc., Englewood, N.J.
 Knowles Mushroom Ventilator Co., Upper Montclair, N. J. (Mushroom)
 Krauser-Boyd, Inc., North Tonawanda, N. Y.
 Krueger Air Conditioning Corp., Tucson, Ariz.
 Leigh Industries Inc., Asheville, N.C.
 Lenly Mfg. Co., Inc., Los Angeles, Calif.
 Lima Register Co., Lima, O.
 Lloyd Register & Grille, Toronto, Ont., Canada
 Made-Rite Co., Inc., Newport, Ky.
 Maurlee Co., Inc., Woodbury Hts., N. J.
 Midco Register Corp., St. Paul, Minn.
 Ritter Pattern & Casting Co., Inc., New York, N. Y. (Mushroom)
 Rock Island Register Co., Rock Island, Ill.
 Shoemaker Mfg. Co., Seattle, Wash.
 Smith Co., J. B., Philadelphia, Pa.
 United States Register Co., Battle Creek, Mich.
 Universal Diffuser Corp., Tuckahoe, N. Y.

DIFFUSERS, AIR, HIGH PRESSURE

Air Devices, Inc., New York, N. Y.
 Anemostat Corp. of America, New York, N. Y.
 Barber-Colman Co., Rockford, Ill.
 Connor Engineering Corp., Danbury, Conn.
 Lima Register Co., Lima, O.
 Midco Register Corp., St. Paul, Minn.
 Tuttle & Bailey Div. of Allied Thermal Corp., New Britain, Conn.
 United Sheet Metal Co., Inc., Columbus, O.
 United States Register Co., Battle Creek, Mich.

DIFFUSERS, AIR, LIGHTING FIXTURE COMBINATION

Air Devices, Inc., New York, N. Y.
 Anemostat Corp. of America, New York, N. Y.
 Barber-Colman Co., Rockford, Ill.
 Carnes Corp., Verona, Wis.

Connor Engineering Corp., Danbury, Conn.
 Demuth & Sons, Inc., Charles, Mineola, L. I., N. Y.
 Pyle-National Co., Multi-Vent Div., Chicago, Ill.
 Tuttle & Bailey Div. of Allied Thermal Corp., New Britain, Conn.
 Universal Diffuser Corp., Tuckahoe, N. Y.

DIFFUSERS, AIR, WALL

A & A Register Co., Cleveland, O.
 A-J Mfg. Co., Kansas City, Mo.
 Air Control Products, Inc., Coopersville, Mich.
 Air Devices, Inc., New York, N. Y.
 Air Distribution Products Co., Los Angeles, Calif.
 Air-Factors, Inc., Monrovia, Calif.
 American Warming & Ventilating Co., Toledo, O.
 Anemostat Corp. of America, New York, N. Y.
 Auer Register Co., Cleveland, O.
 Barber-Colman Co., Rockford, Ill.
 Carnes Corp., Verona, Wis.
 Char-Gale Mfg. Co., Anoka, Minn.
 Coleman Co., Inc., Wichita, Kans.
 Connor Engineering Corp., Danbury, Conn.
 Demuth & Sons, Inc., Charles, Mineola, L. I., N. Y.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Dry Mfg. Co., Winters, Tex.
 General Air Products Corp., Stirling, N.J.
 General Automatic Products Corp., Baltimore, Md.
 General Electric Co., Air Conditioning Dept., Tyler, Tex.
 Gentle-Flo Co., Malvern, Pa.
 Hart & Cooley Mfg. Co., Holland, Mich.
 Independent Register Co., Cleveland, O.
 Jet-Heat, Inc., Englewood, N.J.
 Krueger Air Conditioning Corp., Tucson, Ariz.
 Leigh Industries Inc., Asheville, N.C.
 Lima Register Co., Lima, O.
 Made-Rite Co., Inc., Newport, Ky.
 Metal Industries, Inc., Clearwater, Fla.
 Midco Register Corp., St. Paul, Minn.
 National Grille & Register Co., Cleveland, O.
 Rock Island Register Co., Rock Island, Ill.
 Smith Co., J. B., Philadelphia, Pa.
 Standard Stamping & Perforating Co., Chicago, Ill.
 Steel City Furnace Corp., Springdale, Pa.
 Titus Mfg. Corp., Waterloo, Ia.
 Tuttle & Bailey Div. of Allied Thermal Corp., New Britain, Conn.
 United States Register Co., Battle Creek, Mich.
 Universal Diffuser Corp., Tuckahoe, N. Y.
 Waterloo Register Co., Inc., Waterloo, Ia.

DIFFUSERS, BASEBOARD, WITH ELECTRIC HEATING ELEMENT

Gerwin Industries, Inc., Thermo-Base Div., Michigan City, Ind.
 United States Register Co., Battle Creek, Mich.

DIVERTERS, DRAFT, GAS-FIRED EQUIPMENT

Acme Furnace Fitting Co., Chicago, Ill.
 Acme Mfg. Co., Philadelphia, Pa.
 Adelta Mfg. Co., Inc., Philadelphia, Pa.
 Armstrong Fittings Co., Des Moines, Ia.
 Badger Furnace Pipe Co., Madison, Wis.
 Banner Burner Co., Youngstown, Ohio.
 Buckeye Mfg. Inc., Columbus, Ohio.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Champion Furnace Pipe Co., Peoria, Ill.
 Corbman Bros., Inc., Philadelphia, Pa.
 Excelsior Steel Furnace Co., Chicago, Ill.
 Famous Furnace Co., Cleveland, Ohio.
 Higgins Metal Products Co., The, Swanton, O.
 Hotstream Heater Co., Cleveland, Ohio.
 Inland Steel Products Co., Milwaukee, Wis.
 J & J Sheet Metal Co., Warren, Mich.
 Labeled Metal Products Corp., Broadview, Ill.
 Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif.
 Maurlee Co., Inc., Woodbury Hts., N. J.
 Mirror Patented Stove Pipe Co., Hartford, Conn.
 Tri-State Heating Supply, Inc., Fort Wayne, Ind.
 Waverly Heating Supply Co., Beverly, Mass.
 Wilder Mfg. Co., Niles, Ohio.
 Wilder Products Co., Springfield, Ohio.
 Williamson Co., The, Cincinnati, O.

DOLLY, ROLLER, FOR HANDLING EQUIPMENT

Haaser Sales Co., Fremont, O.

DOOR GRILLES

See Grilles, Door

DOORS, METAL, ACCESS, FOR DUCTS

Adams Co., The, Dubuque, Ia.
Air Control Products, Inc., Coopersville, Mich.
Air-Factors, Inc., Monrovia, Calif.
Ammerman Co., Inc., Stillwater, Minn.
Bahnsen Co., Winston-Salem, N. C.
Carey Mfg. Co., Philip, Cincinnati, O.
Hohmann & Barnard, Inc., New York, N. Y.
Inland Steel Products Co., Milwaukee, Wis.
Pettit & Sons Co., Inc., W. T., Youngstown, O.
United Sheet Metal Co., Inc., Columbus, O.
Valley Forge Metals Corp., Lansdale, Pa.
Ventfabrics, Inc., Chicago, Ill.

DOORS, METAL, CLEANOUT

Adams Co., The, Dubuque, Ia.
Donley Bros. Co., Cleveland, O.
Hohmann & Barnard, Inc., New York, N. Y.
Inland Steel Products Co., Milwaukee, Wis.
Pettit & Sons Co., Inc., W. T., Youngstown, O.

DOORS, METAL, CLOTHES CHUTE

A & A Register Co., Cleveland, O.
Air Control Products, Inc., Coopersville, Mich.
Auer Register Co., Cleveland, O.
Donley Bros. Co., Cleveland, O.
Hart & Cooley Mfg. Co., Holland, Mich.

DOORS, METAL, LOUVER

Hansson, Inc., Elof, Acoustical Div., New York, N.Y.

DOORS, SAFETY, FOR FURNACES

Falz Mfg. Co., St. Paul, Minn.
Leisur-Maid Mfg. Corp., Grand Rapids, Mich.
Liberty Combustion Corp., Syracuse, N. Y.

DOUBLE DUCT MIXING UNITS, SOUND AND VOLUME CONTROL, FOR DOUBLE DUCT HIGH VELOCITY AIR CONDITIONING SYSTEMS

See Units, Mixing, Sound and Volume Control, for Double Duct High Velocity Air Conditioning Systems

DOUBLE SEAMING ROOFING MACHINES

See Machines, Sheet Metal Working, Double Seaming, Roof

DOWNSPOUTING AND FITTINGS

See Pipe and Fittings, Conductor

DRAFT BOOSTER UNITS

See Units, Power Draft

DRAFT CONTROLS

See Dampers, Draft, Barometric

DRAFT DIVERTERS, GAS HEATER

See Diverters, Draft

DRAFT GAGES

See Gages, Draft Indicating, Portable

DRAFT INDUCERS

See Boosters, Draft, Mechanical

DRAFT REGULATORS

See Regulators, Furnace Draft, Mechanical; Dampers, Draft, Barometric; Controls, Draft Damper

DRIERS AND STRAINERS, REFRIGERATION SYSTEM

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
Alco Valve Co., St. Louis, Mo.
Controls Div. of American-Standard, Detroit Mich.
Henry Valve Co., Melrose Park, Ill.
Imperial Brass Mfg. Co.
Kenmore Machine Products, Inc., Lyons, N. Y.
McIntire Co., Livingston, N. J.
Mueller Brass Co., Port Huron, Mich.
Remco, Inc., Zelienople, Pa.
Sporlan Valve Co., St. Louis, Mo.
Superior Valve and Fittings Co., Pittsburgh, Pa.
Tube Manifold Corp., North Tonawanda, N. Y.
Wabash Corp., Chicago, Ill.

DRILLS, ELECTRIC AND PNEUMATIC, PORTABLE

Air-Speed Tool Co., Los Angeles, Calif. (Pneumatic)
Albertson & Co., Inc., Sioux City, Iowa. (Pneumatic and Electric)
Black & Decker Mfg. Co., Towson, Md. (Electric)
Chicago Pneumatic Tool Co., New York, N. Y. (Electric and Pneumatic)
Cummins Portable Tools, Div. of John Oster Mfg. Co., Milwaukee, Wis. (Electric)
Delta Power Tool Div., Rockwell Mfg. Co., Pittsburgh, Pa. (Electric)
Gardner-Denver Co., Quincy, Ill. (Pneumatic)
Ingersoll-Rand Co., New York, N. Y. (Pneumatic)
Krieg, Inc., Victor J., New York, N. Y.
Master Power Corp., Subsidiary of Black & Decker Mfg. Co., Solon, O. (Pneumatic)
Millers Falls Co., Greenfield, Mass. (Electric)
Milwaukee Electric Tool Corp., Milwaukee, Wis. (Electric)
Modern Mfg. Co., Inc., Willow Grove, Pa. (Electric and Pneumatic)
Portable Electric Tools, Inc., Geneva, Ill. (Electric & pneumatic)
Porter-Cable Machine Co., Syracuse, N. Y. (Electric)
Remington Arms Co., Inc., Bridgeport, Conn. (Pneumatic)
Rotor Tool Co., Cleveland, Ohio. (Pneumatic)
Skil Corporation, Chicago, Ill. (Electric & pneumatic)
Small Motors, Inc., Chicago, Ill. (Electric)
Snap-on Tools Corp., Kenosha, Wis. (Electric)
Speedway Mfg. Co., Div. of Thor Power Tool Co., LaGrange Park, Ill.
Stanley Electric Tools Div. of The Stanley Works, New Britain, Conn. (Electric)
Stow Mfg. Co., Binghamton, N. Y. (Electric-flexible shaft)
Superior Pneumatic & Mfg. Inc., Cleveland, O. (Pneumatic)
Thor Power Tool Co., Aurora, Ill. (Electric & pneumatic)
Wen Products, Inc., Chicago, Ill. (Electric)
Wodack Electric Tool Corp., Chicago, Ill. (Electric)

DRIVE CLEATS

See Connectors, Metal

DRYERS, CROP, FURNACE TYPE

Campbell Heating Co., Des Moines, Iowa.
Clay Equipment Corp., Cedar Falls, Ia.
Link-Belt Co., Chicago, Ill.
National Heater Co., Inc., St. Paul, Minn.
Refrigeration Research, Inc., Brighton, Mich.
Siebring Mfg. Co., George, Ia.
Zink Co., John, Tulsa, Okla.

DUCT ANCHORS

See Anchors, Duct and Pipe

DUCT FABRIC

See Connections, Duct, Flexible

DUCT FITTING HARDWARE

See Hardware, Duct

DUCT FITTINGS

Angles, Boots, Heads, Joints, Offsets, Tees, etc.

Acer & Whedon, Inc., Medina, N. Y.
Acme Furnace Fitting Co., Chicago, Ill.
Acme Mfg. Co., Philadelphia, Pa.
Adelta Mfg. Co., Inc., Philadelphia, Pa.
Aeroquip Corp., Marman Div., Los Angeles, Calif. (Adjustable joints)
Aireflo Furnace Pipe Co., Brighton, Mich.
Ajax Furnace Fitting Co., Div. Cincinnati Sheet Metal & Roofing Co., Cincinnati, Ohio.
American Metal Products, Los Angeles, Calif.
Armstrong Fittings Co., Des Moines, Ia.
Ashburn Supply Co., Culver City, Calif.
Badger Furnace Pipe Co., Madison, Wis.
Beetle Plastics Corp., Carl N., Fall River, Mass. (Plastic)
Bergstrom Mfg. Corp., Neenah, Wis.
Bieler & Son, Long Island City, N. Y. (Adjustable elbows)
Buckeye Mfg. Inc., Columbus, Ohio.
Champion Furnace Pipe Co., Peoria, Ill.
Char-Gale Mfg. Co., Anoka, Minn.
Cincinnati Stamping & Furnace Co., Cincinnati, Ohio.
Coleman Co., Inc., Wichita, Kans.
Corbman Bros., Inc., Philadelphia, Pa.
Creamer Industries, Inc., Maxwell Steel Div., Fort Worth, Tex.
Detroit Safety Furnace Pipe Co., Detroit, Mich.
Duc-Pac Inc., East Longmeadow, Mass.
Du Verre, Inc., Buffalo, N. Y. (Plastic)
Eisbach, Albert N., Dubuque, Iowa. (Elbows)
Empire Stove Co., Belleville, Ill.
Enderle Inc., Ltd., Frank X., Los Angeles, Calif.
Excelsior Steel Furnace Co., Chicago, Ill.
Felter Co., John, Houston, Tex.
Francer Mfg. & Supply Corp., East Weymouth, Mass.
Gary Steel Products Co., Gary, Ind.
Green Colonial Inc., Des Moines, Iowa.
Hawthorne Mfg. Corp., Hawthorne, Pa.
Heil Process Equipment Corp., Cleveland, O.
Henry Furnace Co., Medina, Ohio.
Home Furnace Co., Holland, Mich.
Howes-Woods Co., Cambridge, Mass.
Hugert Mfg. Co., Medina, Ohio.
Inland Steel Products Co., Milwaukee, Wis.
International Heater Co., Utica, N. Y.
J & J Sheet Metal Co., Warren, Mich. (Elbows)
Juniper Elbow Co., Inc., Middle Village, L. I., N. Y.
Keith Furnace Co., Des Moines, Iowa.
Krauser-Boyd, Inc., North Tonawanda, N. Y.
Labeled Metal Products Corp., Broadview, Ill.
La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis. (Elbows)
Lennox Industries Inc., Marshalltown, Iowa.
Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif.
Lyman Sheet Metal Co., Inc., Southampton, Mass.
Lyon, Conklin & Co., Inc., Baltimore, Md.
Made-Rite Co., Inc., Newport, Ky.
Majestic Co., Inc., Huntington, Ind.
Marshall Furnace Co., Marshall, Mich.
Maurlee Co., Inc., Woodbury Hts., N. J.
Metal Fabricators, Inc., Charlotte, N. C.
Meyer & Bro. Co., F. Peoria, Ill.
Mitchell Metal Works, Mike, Kosciusko, Miss.
Modern Metals, Inc., Houston, Tex.
Moncrief Furnace Co., Atlanta, Ga.
Morrison Steel Products, Inc., Buffalo, N. Y.
Norwalk Air Conditioning Corp., South Norwalk, Conn.
Olsen Mfg. Co., The C. A., Elyria, O.
Peerless Corp., Indianapolis, Ind.
Penn Supply & Metal Corp., Philadelphia, Pa.
Perfection Furnace Pipe Co., Toledo, Ohio.

Premier Furnace Co., Dowagiac, Mich.
Quality Heating Supply Co., Cincinnati, O.
Ralph Mfg. Co., Inc., Wadsworth, Ohio.
Reeves Steel & Mfg. Co., Div. of Empire-Reeves Steel Corp., Dover, O. (Angles, elbows)
Roofing & Supply Co., Chattanooga, Tenn.
Round Oak Div., Peerless Corp., Dowagiac, Mich.
Ryniker Steel Products Co., Billings, Mont.
St. Clair Metal Products Co., Cleveland, O.
Schechter Bros. Co., Philadelphia, Pa.
Snappy Inc., Detroit Lakes, Minn.
Standard Metal Fabricating Co., Omaha, Nebr.
Steel City Furnace Corp., Springdale, Pa.
Stratton & Terstegge Co., Louisville, Ky.
Superior Products Co., Omaha, Nebr.
Superior Safety Furnace Pipe Co., Detroit, Mich.
Thor Metal Products Co., Inc., Syracuse, N. Y.
Tiffin Art Metal Co., Tiffin, O. (Angles, boots, elbows, heads, joints, offsets, take offs, tees)
Tri-State Heating Supply, Inc., Fort Wayne, Ind.
United Sheet Metal Co., Inc., Columbus, O.
United States Register Co., Battle Creek, Mich. (Elbows & angles)
Waverly Heating Supply Co., Beverly, Mass.
Wheeling Corrugating Co., Wheeling, W. Va.
Wheelock Co., Geo. F., Birmingham, Ala.
Williamson Co., The, Cincinnati, Ohio. (Aluminum and galvanized)

DUCT FITTINGS, AIRTIGHT, FOR HIGH VELOCITY SYSTEMS

Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
Hi-Press Air Conditioning of America, New York, N.Y.
United Sheet Metal Co., Inc., Columbus, O.
Worthington Corp., Harrison, N. J.
York Div. of Borg-Warner Corp., York, Pa.

DUCT FITTINGS, AIRTIGHT, OVAL, FOR HIGH VELOCITY SYSTEMS

Pacific Air Products Co., Los Angeles, Calif.

DUCT FITTINGS, OVAL, FOR LOW VELOCITY SYSTEMS

Fox, Inc., Chris, Trenton, N.J.
Maurlee Co., Inc., Woodbury Hts., N. J.

DUCT FORMING MACHINES

See Machines, Sheet Metal Working, Grooving

DUCT HANGING CLAMPS

See Clamps, Beam, Duct Hanging

DUCT INSULATION

See Insulation, Duct

DUCT JOINT SEALING COMPOUND

See Sealers, Duct Joint

DUCT MIXING UNITS, SOUND AND VOLUME CONTROL, FOR DOUBLE DUCT HIGH VELOCITY AIR CONDITIONING SYSTEMS

See Units, Mixing, Sound and Volume Control, for Double Duct High Velocity Air Conditioning Systems

DUCT ROLLING MACHINES

See Machines, Sheet Metal Working, Slip Roll Forming

DUCTS, AIRTIGHT, OVAL, FOR HIGH VELOCITY SYSTEMS

Pacific Air Products Co., Los Angeles, Calif.

DUCTS, OVAL, FOR LOW VELOCITY SYSTEMS

Fox, Inc., Chris, Trenton, N.J.
Maurlee Co., Inc., Woodbury Hts., N. J.

DUCTS, FLEXIBLE

Anaconda Metal Hose Div., American Brass Co., Waterbury, Conn.
BTU Industries, Inc., Englewood, N. J.
Flexaust Co., The, New York, N. Y.
Flexible Tubing Corp., Guilford, Conn.
Flexonics Corp., Maywood, Ill.
Jet-Heet, Inc., Englewood, N. J.
Wiremold Co., Hartford, Conn.

DUCTS, PREFABRICATED, METAL

Acer & Whedon, Inc., Medina, N. Y.
Acme Furnace Fitting Co., Chicago, Ill.
Acme Mfg. Co., Philadelphia, Pa.
Adelta Mfg. Co., Inc., Philadelphia, Pa.
Aireflo Furnace Pipe Co., Brighton, Mich.
Airtloor Co. of California, Inc., Santa Fe Springs, Calif.
Ajax Furnace Fitting Co., Div. Cincinnati Sheet Metal & Roofing Co., Cincinnati, Ohio.
Armstrong Fittings Co., Des Moines, Ia.
Badger Furnace Pipe Co., Madison, Wis.
Buckeye Mfg. Inc., Columbus, Ohio.
Champion Furnace Pipe Co., Peoria, Ill.
Chandler Co., Cedar Rapids, Iowa.
Char-Gale Mfg. Co., Anoka, Minn.
Cincinnati Stamping & Furnace Co., Cincinnati, O.
Coleman Co., Inc., Wichita, Kans.
Corbman Bros., Inc., Philadelphia, Pa.
Creamer Industries, Inc., Maxwell Steel Div., Fort Worth, Tex.
Detroit Safety Furnace Pipe Co., Detroit, Mich.
Duc-Pac Inc., East Longmeadow, Mass.
Enderle, Inc., Ltd., Frank X., Los Angeles, Calif.
Ervite Corp., Erie, Pa. (Porcelain enamel)
Excelsior Steel Furnace Co., Chicago, Ill.
Felter Co., John, Houston, Tex.
Flexonics Corp., Chicago, Ill.
Francer Mfg. & Supply Corp., East Weymouth, Mass.
Gary Steel Products Corp., Gary, Ind.
General Metals, Inc., Greensboro, N. C.
Grand Island Furnace & Supply Co., Grand Island, Nebr.
Hawthorne Mfg. Corp., Hawthorne, Pa.
Henry Furnace Co., Medina, Ohio.
Hi-Press Air Conditioning of America, New York, N.Y.
Home Furnace Co., Holland, Mich.
Howes-Woods Co., Cambridge, Mass.
Hugert Mfg. Co., Medina, O.
Inland Steel Products Co., Milwaukee, Wis.
International Heater Co., Utica, N. Y.
J & J Sheet Metal Co., Warren, Mich.
Keith Furnace Co., Des Moines, Iowa.
Krauser-Boyd, Inc., North Tonawanda, N. Y.
Labeled Metal Products Corp., Broadview, Ill.
Lennox Industries Inc., Marshalltown, Iowa.
Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif.
Lumm Co., A. H., Toledo, O.
Made-Rite Co., Inc., Newport, Ky.
Majestic Co., Inc., Huntington, Ind.
Maurlee Co., Inc., Woodbury Hts., N. J.
Metal Fabricators, Inc., Charlotte, N. C.
Meyer & Bro. Co., F., Peoria, Ill.
Mitchell Metal Works, Mike, Kosciusko, Miss.
Modern Metals, Inc., Houston, Tex.
Moncrief Furnace Co., Atlanta, Ga.
Morrison Steel Products, Inc., Buffalo, N. Y.
Norwalk Air Conditioning Corp., South Norwalk, Conn.
Olsen Mfg. Co., The C. A., Elyria, O.
Peerless Corp., Indianapolis, Ind.
Penn Supply & Metal Corp., Philadelphia, Pa.
Perfection Furnace Pipe Co., Toledo, Ohio.
Pressure Airduct Corp., Skokie, Ill. (Insulated)
Ralph Manufacturing Co., Inc., Wadsworth, Ohio
Reeves Steel & Mfg. Co., Div. of Empire-Reeves Steel Corp., Dover, O.

Round Oak Div., Peerless Corp., Dowagiac, Mich.
Ryniker Steel Products Co., Billings, Mont.
St. Clair Metal Products Co., Cleveland, O.
Schechter Bros. Co., Philadelphia, Pa.
Standard Metal Fabricating Co., Omaha, Nebr.
Steel City Furnace Corp., Springdale, Pa.
Stratton & Terstegge Co., Inc., Louisville, Ky.
Superior Safety Furnace Pipe Co., Detroit, Mich.
Thor Metal Products Co., Inc., Syracuse, N. Y.
Tiffin Art Metal Co., Tiffin, O.
Tri-State Heating Supply, Inc., Fort Wayne, Ind.
United States Register Co., Battle Creek, Mich.
Viking Mfg. Corp., Cleveland, Ohio.
Waverly Heating Supply Co., Beverly, Mass.
Williamson Co., The, Cincinnati, Ohio.

DUCTS, PREFABRICATED, NON-METALLIC

American Agile Corp., Bedford, Ohio. (Plastic)
Atlas Mineral Products Co., Mertztown, Pa. (Plastic)
Beetle Plastics Corp., Carl N., Fall River, Mass. (Plastic)
Brown Co., Boston, Mass. (Wood fiber)
Cannelton Sewer Pipe Co., Cannelton, Ind. (Vitrified clay pipe)
Colonial Plastics Mfg. Co., Subsidiary Van Dorn Iron Works Co., Cleveland, O. (Polyvinyl chloride)
Corite-Reynolds Corp., Des Plaines, Ill. (Plastic)
Delta Co., The, Chicago, Ill. (Fiber)
Du Verre, Inc., Buffalo, N. Y. (Plastic)
Electro-Chemical Products Corp., Cleveland, O. (Vinyl plastic)
Flexible Tubing Corp., Guilford, Conn. (Glass fiber cloth)
Gustin-Bacon Mfg. Co., Kansas City, Mo. (Glass fiber)
Haveg Corp., Wilmington, Del. (Plastic)
Heil Process Equipment Corp., Cleveland, O. (Plastic)
Industrial Plastic Fabricators, Inc., Norwood, Mass. (Polyethylene)
International Oil Burner Co., St. Louis, Mo. (Fiber)
Johns-Manville, New York, N. Y. (Asbestos-cement)
Keasbey & Mattison Co., Ambler, Pa. (Asbestos — cement)
Lumm Co., A. H., Toledo, Ohio. (Asbestos cement board)
Middlesex Paper Tube Co., Inc., Lowell, Mass. (Impregnated paper)
Modular Plastic Corp., Detroit, Mich. (Plastic)
Owens-Corning Fiberglass Corp., New York, N. Y. (Glass fiber, foil covered)
Price Bros., Flexicore Div., Dayton, Ohio. (Concrete)
Republic Rubber Div., Lee Rubber & Tire Corp., Youngstown, O.
Richkraft Co., The, Chicago, Ill. (Fibre and aluminum foil)
Robinson Clay Product Co., Akron, O. (Vitrified clay)
Round Tube and Cores Co., Chicago, Ill. (Fiber)
S & C Mfg. Co., Cincinnati, O. (Plastic)
Sonoco Products Co., Construction Products Div., Hartsville, S. C. (Fiber)
Straitsville Brick Co., New Straitsville, O.
Thor Metal Products Co., Inc., Syracuse, N. Y.
United States Rubber Co., New York, N. Y.
York Div. of Borg-Warner Corp., York, Pa. (Glass fiber helical conduit for high pressure systems)

DUCTS, SPIRAL, WELDED

Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
United Sheet Metal Co., Inc., Columbus, O.
Worthington Corp., Harrison, N. J.
York Div. of Borg-Warner Corp., York, Pa.

DUCT TAPE

See Tape, Duct, Adhesive, for Sealing Joints

DUCT TURNING VANES

See Vanes, Duct Turning

DUST COLLECTORS

See Collectors, Dust

EAVES TROUGH AND FITTINGS

See Gutters; Gutter Accessories

EAVE VENTS

See Roof Trim, Prefabricated

ELBOW MACHINES

See Machines, Elbow

ELBOWS, GUTTER PIPE

See Pipe and Fittings, Conductor

ELECTRIC AIR FILTERS

See Cleaners, Air, Electronic

ELECTRIC BASEBOARD DIFFUSERS

See Diffusers, Baseboard, with Electric Heating Element

ELECTRIC HEATING CABLE

See Cable, Electric Heating

ELECTRIC MOTORS

See Motors, Electric

ELECTRIC RADIATORS

See Heaters and Radiators, Electric

ELECTRIC WALL HEATERS

See Heaters, Electric, Wall and Baseboard

ELECTRIC WATER HEATERS

See Heaters, Water, Domestic, Electric

ELECTRIC WELDERS

See Welders

ELECTRODES, OIL BURNER

See Burner Parts, Oil

ELECTRODES, WELDING

See Rod, Welding

ELECTRONIC AIR CLEANERS

See Cleaners, Air, Electronic

EMBOSSED SHEET METAL

See Sheets, Metal Embossed

ENCLOSURES, RADIATOR

Imperial Damper Co., New York, N. Y.
Kauffman Air Conditioning Corp., St. Louis, Mo.
Somers Corp., Detroit, Mich.
Wallace & Gale Co., Baltimore, Md.

EVACUATING PUMPS

See Pumps, Evacuating, Portable

EVAPORATIVE COOLER PADS

See Mats, Evaporative Cooler

EVAPORATIVE COOLERS

See Unitary Air Conditioners, Summer, Self-Contained, Evaporative Cooler

EVAPORATOR COILS

See Unitary Air Conditioners, Summer, Coil; Coils, Cooling, Direct Expansion

EXCHANGERS, HEAT, FOR AIR TO AIR HEAT RECOVERY

See Units, Heat Recovery, Air to Air

EXCHANGERS, HEAT, REFRIGERANT SUCTION LINE

Bohn Aluminum and Brass Corp., Danville Div., Danville, Ill.
Doyle & Roth Mfg. Co., Brooklyn, N. Y.
Gerstein & Copper Co., Inc., South Boston, Mass.
Heat-X Inc., Subsidiary of Dunham-Bush Inc., Brewster, N. Y.
Kenmore Machine Products, Inc., Lyons, N. Y.
Kramer Trenton Co., Trenton, N. J.
Larkin Coils, Inc., Atlanta, Ga.
Mueller Brass Co., Port Huron, Mich.
Refrigeration Research, Inc., Brighton, Mich.
Superior Valve and Fittings Co., Pittsburgh, Pa.

EXPANDED METAL

See Sheets, Expanded Metal

EXPANSION BOLTS

See Bolts, Expansion

FACES, RETURN AIR, METAL

A & A Register Co., Cleveland, Ohio.
A-J Mfg. Co., Kansas City, Mo.
Adelta Mfg. Co., Philadelphia, Pa.
Air Control Products, Inc., Coopersville, Mich.
Air Devices, Inc., New York, N. Y.
Air-Factors, Inc., Monrovia, Calif.
Auer Register Co., Cleveland, Ohio.
Barber-Colman Co., Rockford, Ill.
Char-Gale Mfg. Co., Anoka, Minn.
Controlair Mfg. Co., Los Angeles, Calif.
Corbman Bros., Inc., Philadelphia, Pa.
Diamond Mfg. Co., Wyoming, Pa.
General Air Products Corp., Stirling, N. J.
Harrington & King Perforating Co., Inc., Chicago, Ill.
Hart & Cooley Mfg. Co., Holland, Mich.
Hendrick Mfg. Co., Carbondale, Pa.
Independent Register Co., Cleveland, Ohio.
Juniper Elbow Co., Inc., Middle Village, L. I., N. Y.
Leigh Industries Inc., Asheville, N.C.
Lima Register Co., Lima, Ohio.
Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif.
Made-Rite Co., Inc., Newport, Ky.
Maurlee Co., Inc., Woodbury Hts., N. J.
Midco Register Corp., St. Paul, Minn.
Mundt & Sons, Charles, Jersey City, N. J.
Register & Grille Mfg. Co., Inc., Brooklyn, N. Y.
Rock Island Register Co., Rock Island, Ill.
Shoemaker Mfg. Co., Seattle, Wash.
Smith Co., J. B., Philadelphia, Pa.
Standard Stamping & Perforating Co., Chicago, Ill.

Tuttle & Bailey Div. of Allied Thermal Corp., New Britain, Conn.
United States Register Co., Battle Creek, Mich.

FAN CONTROLS

See Controls, Fan

FAN HOUSINGS

See Housings, Blower and Fan

FANS, PROPELLER TYPE, ATTIC

Acme Engineering & Mfg. Corp., Muskogee, Okla.
Air Controls, Inc., Div. Cleveland Heater Co., Cleveland, O.
Airmaster Corp., Chicago, Ill.
Allen Cooler & Ventilator Inc., Rochester, Mich.
American Air Filter Co., Inc., Louisville, Ky.
American Coolair Corp., Jacksonville, Fla.
American-Standard Industrial Div., Detroit, Mich.
Ammerman Co., Inc., Stillwater, Minn.
Bar-Brook Mfg. Co., Inc., Shreveport, La.
Belco Industries, Inc., St. Louis, Mo.
Berns Air King Corp., Chicago, Ill.
Buffalo Forge Co., Buffalo, N. Y.
Chelsea Fan & Blower Co., Inc., Plainfield, N. J.
Chicago Blower Corp., Franklin Park, Ill.
Cirklair Products Div., Folsom Co., Inc., Dallas, Tex.
Commercialaire Corp. of America, Brooklyn, N. Y.
Consolidated General Products, Inc., Houston, Tex.
Dana Fan & Blower Corp., Cincinnati, O.
Diehl Mfg. Co., Somerville, N. J.
Electrovent Fan & Mfg. Co., Chicago, Ill.
Emerson Electric Mfg. Co., St. Louis, Mo.
Felter Co., John, Houston, Tex.
Fort Valley Fan Co., Fort Valley, Ga.
Hunter Div., Robbins & Myers, Inc., Memphis, Tenn.
Ilg Electric Ventilating Co., Chicago, Ill.
Jordan & Co., Inc., Paul R., Indianapolis, Ind.
Kloppenborg Foundry & Fan Co., Davenport, Ia.
Lakewood Engineering & Mfg. Co., Chicago, Ill.
Lau Blower Co., Dayton, O.
Martin Fan & Blower Co., Chicago, Ill.
McLean Engineering Laboratories, Princeton, N. J.
Meier Electric, Indianapolis, Ind.
Norky Mfg. Corp., Covington, Ky.
Peerless Electric Div., H. K. Porter Co., Inc., Warren, O.
Phelps Mfg. Co., Little Rock, Ark.
Reed Unit-Fans, Inc., New Orleans, La.
Rich Fan Mfg. Co., Phil, Houston, Tex.
Robbins & Myers, Inc., Springfield, O.
Standard Electric Mfg. Co., Inc., West Berlin, N.J.
Triangle Engineering Co., Houston, Tex.
Whirlwind Mfg. Co., Houston, Tex.
Wind-Way Fan & Ventilator Co., New Orleans, La.
Zink Co., John, Tulsa, Okla.

FANS, PROPELLER TYPE, AXIAL FLOW

Acme Engineering & Mfg. Corp., Muskogee, Okla.
Aerovent Fan Co., Piqua, Ohio.
Airfan Engineering Co., Los Angeles, Calif.
Allen Cooler & Ventilator Inc., Rochester, Mich.
Alloy Propeller Co., Zelenople, Pa.
American-Standard Industrial Div., Detroit, Mich.
Ammerman Co., Inc., Stillwater, Minn.
Benson Mfg. Co., Kansas City, Mo.
Bertram Co., Harvey P., Cincinnati, Ohio.
Blower Application Co., Milwaukee, Wis.
Bowman Steel Corp., Pittsburgh, Pa.
Buffalo Forge Co., Buffalo, N. Y.
Century Fan & Ventilator Co., Inc., Stamford, Conn.
Chelsea Fan & Blower Co., Inc., Plainfield, N. J.
Chicago Blower Corp., Franklin Park, Ill.
Cook Co., Loren, Berea, O.
Corite-Reynolds Corp., Des Plaines, Ill. (Plastic and plastic coated)
Dana Fan & Blower Corp., Cincinnati, Ohio.
De Bothezat Fans Div., American Machine and Metals, Inc., East Moline, Ill.
Dryer Dynamics Corp., Lyndhurst, N.J.
Electric Boat Div., General Dynamics Corp., Groton, Conn.
Frigid, Inc., Brooklyn, N. Y.

Hartzell Propeller Fan Co., Div. Castle Hills Corp., Piqua, Ohio.
Heil Process Equipment Corp., Cleveland, O. (Plastic)
Ilg Electric Ventilating Co., Chicago, Ill.
Industrial Plastic Fabricators, Inc., Norwood, Mass. (Plastic)
International Process Equipment Co. Div., The Patterson Foundry and Machine Co., East Liverpool, O.
Joy Mfg. Co., Pittsburgh, Pa.
Koppers Co., Inc., Metal Products Div., Baltimore, Md.
M & E Mfg. Co., Indianapolis, Ind.
Martin Fan & Blower Co., Chicago, Ill.
Moore Co., Marceline, Mo.
Peerless Electric Div., H. K. Porter Co., Warren, O.
Penn Ventilator Co. Inc., Philadelphia, Pa.
Power Line Fan Co., Div. of Chelsea Products Inc., Plainfield, N. J.
Propellair Div., Robbins & Myers, Inc., Springfield, O.
Reed Unit-Fans, Inc., New Orleans, La.
Robbins & Myers, Inc., Springfield, Ohio.
Robinson Ventilating Co., Zelenople, Pa.
South Bend Air Products, Inc., South Bend, Ind.
Standard Electric Mfg. Co., Inc., West Berlin, N.J.
Sutton Corp., O. A., Wichita, Kans.
Trane Co., The, LaCrosse, Wis.
Vernco Corp., Columbus, Ind.
Westinghouse Electric Corp., Sturtevant Div., Boston, Mass.
Wind-Way Fan & Ventilator Co., New Orleans, La.
Wing Mfg. Div., L. J., Aero Supply Mfg. Co. Inc., Linden, N. J.
Zink Co., John, Tulsa, Okla.

FANS, PROPELLER TYPE, BOOSTER, COLD AIR RETURN

Advance Aluminum Castings Corp., Chicago, Ill.
Berns Air King Corp., Chicago, Ill.
Brumme Mfg. Co., Topeka, Kans.
Cary Mfg. Co., Waupaca, Wis.
Dana Fan & Blower Corp., Cincinnati, Ohio.
International Process Equipment Co. Div., The Patterson Foundry and Machine Co., East Liverpool, O.
Martin Fan & Blower Co., Chicago, Ill.
Mauer Engineering, Evanston, Ill.
McLarty Systems, Battle Creek, Mich.
Robbins & Myers, Inc., Springfield, Ohio.
Silent Sioux Corp., Orange City, Iowa.
Western Engineering & Mfg. Co., Venice, Calif.

FANS, PROPELLER TYPE, BOOSTER, ONE-PIPE WARM AIR

Brumme Mfg. Co., Topeka, Kans.
Champion Blower & Forge Co., Lancaster, Pa.
Dana Fan & Blower Corp., Cincinnati, Ohio.
Lynch & Sons, Kenneth, Wilton, Conn. (Ornamental)
Martin Fan & Blower Co., Chicago, Ill.
Mauer Engineering, Evanston, Ill.
McLarty Systems, Battle Creek, Mich.
New-Aire Blower Co., Madison Heights, Mich.
Park Heating Specialties, Minneapolis, Minn.
Robbins & Myers, Inc., Springfield, Ohio.
Standard Electric Mfg. Co., Inc., West Berlin, N. J.
Victor Electric Products, Inc., Cincinnati, Ohio.
Western Engineering & Mfg. Co., Venice, Calif.

FANS, PROPELLER TYPE, EXHAUSTERS

Acme Engineering & Mfg. Corp., Muskogee, Okla.
Aerovent Fan Co., Inc., Piqua, O.
Air Controls, Inc., Div. Cleveland Heater Co., Cleveland, O.
Airfan Engineering Co., Los Angeles, Calif.
Airmaster Corp., Chicago, Ill.
Allen Cooler & Ventilator Inc., Rochester, Mich.
American Air Filter Co., Inc., Louisville, Ky.
American-Standard Industrial Div., Detroit, Mich.
Ammerman Co., Inc., Stillwater, Minn.
Baldor Electric Co., St. Louis, Mo.
Bertram Co., Harvey P., Cincinnati, Ohio.
Binks Mfg. Co., Chicago, Ill.
Black Mfg. Co. Div., Alexander Milburn, Inc., Baltimore, Md.
Buffalo Forge Co., Buffalo, N. Y.
Century Fan & Ventilator Co., Inc., Stamford, Conn.
Champion Blower & Forge Co., Lancaster, Pa.
Chelsea Fan & Blower Co., Inc., Plainfield, N. J.
Chicago Blower Corp., Franklin Park, Ill.
Cirklair Products Div., Folsom Co., Inc., Dallas, Tex.

Clarage Fan Co., Kalamazoo, Mich.
 Commercialaire Corp. of America, Brooklyn, N. Y.
 Cook Co., Loren, Berea, Ohio.
 Coppus Engineering Corp., Worcester, Mass.
 Corite-Reynolds Corp., Des Plaines, Ill. (Plastic and plastic coated)
 Damp-Vent Co., Bettendorf, Ia.
 Dana Fan & Blower Corp., Cincinnati, Ohio.
 De Bothezat Fans Div., American Machine and Metals, Inc., East Moline, Ill.
 Diehl Mfg. Co., Somerville, N. J.
 Du Verre, Inc., Buffalo, N. Y. (Plastic)
 Electrovent Fan & Mfg. Co., Chicago, Ill.
 Englo Products Corp., Johnstown, Pa.
 Frigid, Inc., Brooklyn, N. Y.
 Gallaher Co., Omaha, Nebr.
 General Blower Co., Subsidiary of Ilg Electric Ventilating Co., Morton Grove, Ill.
 Hunter Div., Robbins & Myers, Inc., Memphis, Tenn.
 Ilg Electric Ventilating Co., Chicago, Ill.
 International Process Equipment Co. Div., The Patterson Foundry and Machine Co., East Liverpool, O.
 Jenn Air Products Co., Indianapolis, Ind.
 Jordan & Co., Inc., Paul R., Indianapolis, Ind.
 Joy Mfg. Co., Pittsburgh, Pa.
 King Co., Owatonna, Minn.
 Kirk & Blum Mfg. Co., Cincinnati, Ohio.
 Kisco Boiler & Engineering Co., St. Louis, Mo.
 Kloppenborg Foundry & Fan Co., Davenport, Ia.
 Martin Fan & Blower Co., Chicago, Ill.
 McLarty Systems, Battle Creek, Mich.
 Moore Co., Marceline, Mo.
 Mountain States Equipment Co., Denver, Colo.
 Muckle Mfg. Co., Owatonna, Minn.
 National Engineering & Mfg. Co., Sedalia, Mo.
 Nelson Products, Herman, American Air Filter Co., Inc., Louisville, Ky.
 New York Blower Co., Chicago, Ill.
 Palmer Engineering Co., Fan Div., West De Pere, Wis.
 Peerless Electric Div., H. K. Porter Co., Warren, O.
 Penn Ventilator Co., Inc., Philadelphia, Pa.
 Power Line Fan Co., Div. of Chelsea Products Inc., Plainfield, N. J.
 Propellair Div., Robbins & Myers, Inc., Springfield, O.
 Reed Unit-Fans, Inc., New Orleans, La.
 Rich Fan Mfg. Co., Phil. Houston, Tex.
 Robbins & Myers, Inc., Springfield, O.
 Ruemelin Mfg. Co., Milwaukee, Wis.
 South Bend Air Products, Inc., South Bend, Ind.
 Standard Electric Mfg. Co., Inc., West Berlin, N. J.
 Sutton Corp., O. A., Wichita, Kans.
 Torit Mfg. Co., St. Paul, Minn.
 Trade-Wind Motorfans, Inc., Pico Rivera, Calif.
 Trane Co., The, La Crosse, Wis.
 Vernco Corp., Columbus, Ind.
 Western Engineering & Mfg. Co., Venice, Calif.
 Wind-Way Fan & Ventilator Co., New Orleans, La.
 Wing Mfg. Div., L. J., Aero Supply Mfg. Co. Inc., Linden, N. J.
 Zink Co., John, Tulsa, Okla.

FANS, PROPELLER TYPE, FURNACE

American-Standard Industrial Div., Detroit, Mich.
 Brumme Mfg. Co., Topeka, Kans.
 Dana Fan & Blower Corp., Cincinnati, Ohio.
 De Bothezat Fan Div., American Machine and Metals, Inc., East Moline, Ill.
 Joy Mfg. Co., Pittsburgh, Pa.
 Martin Fan & Blower Co., Chicago, Ill.
 McLarty Systems, Battle Creek, Mich.
 Peerless Electric Div., H. K. Porter Co., Warren, O.

FANS, PROPELLER TYPE, KITCHEN EXHAUST

Air Control Products, Inc., Coopersville, Mich.
 American-Standard Industrial Div., Detroit, Mich.
 Ammerman Co., Inc., Stillwater, Minn.
 Arizona Maintenance Co., Tucson, Ariz.
 Bar-Brook Mfg. Co., Inc., Shreveport, La.
 Berns Air King Corp., Chicago, Ill.
 Broan Mfg. Co., Inc., Hartford, Wis.
 Buffalo Forge Co., Buffalo, N. Y.
 Carey Mfg. Co., Philip, Cincinnati, Ohio.
 Century Fan & Ventilator Co., Inc., Stamford, Conn.
 Champion Blower & Forge Co., Lancaster, Pa.

Chelsea Fan & Blower Co., Inc., Plainfield, N. J.
 Clarage Fan Co., Kalamazoo, Mich.
 Cook Co., Loren, Berea, O.
 Dana Fan & Blower Corp., Cincinnati, Ohio.
 Electrovent Fan & Mfg. Co., Chicago, Ill.
 Emerson Electric Mfg. Co., St. Louis, Mo.
 Emerson-Pryne Co., Pomona, Calif.
 Fasco Industries, Inc., Rochester, N. Y.
 Ilg Electric Ventilating Co., Chicago, Ill.
 Jenn Air Products Co., Indianapolis, Ind.
 Kloppenborg Foundry & Fan Co., Davenport, Ia.
 Kool Air Engineering Co., San Bernardino, Calif.
 Lau Blower Co., Dayton, Ohio.
 Martin Fan & Blower Co., Chicago, Ill.
 Marvin Electric Mfg. Co., Los Angeles, Calif.
 McLarty Systems, Battle Creek, Mich.
 Meyer Mfg. Co., Detroit, Mich.
 NuTone, Inc., Cincinnati, O.
 Peerless Electric Co., Warren, Ohio.
 Propellair Div., Robbins & Myers, Inc., Springfield, O.
 Pyrne & Co., Inc., Pomona, Calif.
 Simpson Co., Oakland, Calif.
 Skinner Heating & Ventilating Co. Div. Young Sales Corp., St. Louis, Mo.
 Standard Electric Mfg. Co., Inc., West Berlin, N. J.
 Stewart Industries, Inc., Indianapolis, Ind.
 Sutton Corp., O. A., Wichita, Kans.
 Trade-Wind Div., Robbins & Myers, Inc., Pico Rivera, Calif.
 Universal Blower Co., Birmingham, Mich.
 Ventrola Mfg. Co., Owosso, Mich.
 Vernco Corp., Columbus, Ind.
 West Wind Corp., Seattle, Wash.
 Westinghouse Electric Corp., Portable Appliance Div., Mansfield, O.
 Wing Mfg. Div., L. J., Aero Supply Mfg. Co. Inc., Linden, N. J.

FANS, PROPELLER TYPE, WINDOW EXHAUST

Air Controls, Inc., Div. Cleveland Heater Co., Cleveland, O.
 American Coolair Corp., Jacksonville, Fla.
 Baldor Electric Co., St. Louis, Mo.
 Berns Air King Corp., Chicago, Ill.
 C. & H. Air Conditioning Fan Co., Inc., Atlanta, Ga.
 Champion Blower & Forge Co., Lancaster, Pa.
 Emerson Electric Mfg. Co., St. Louis, Mo.
 Fasco Industries, Inc., Rochester, N. Y.
 Fresh Air Circulator Co., Houston, Tex.
 Hunter Div., Robbins & Myers, Inc., Memphis, Tenn.
 International Oil Burner Co., St. Louis, Mo.
 Lakewood Engineering & Mfg. Co., Chicago, Ill.
 Martin Fan & Blower Co., Chicago, Ill.
 Propellair Div., Robbins & Myers, Inc., Springfield, O.
 Reed Unit-Fans, Inc., New Orleans, La.
 Seco-Lite Mfg. Co., St. Louis, Mo.
 Standard Electric Mfg. Co., Inc., West Berlin, N. J.
 Steam-O-Matic Corp., Sedalia, Mo.
 Sutton Corp., O. A., Wichita, Kans.
 Westinghouse Electric Corp., Portable Appliance Div., Mansfield, O.
 Wind-Way Fan & Ventilator Co., New Orleans, La.

FASTENERS, CARTRIDGE TYPE

See Guns, Welding, Stud

FASTENINGS, INSULATION

Cuyahoga Products Corp., Subsidiary Republic Industrial Corp., Cleveland, O.
 Gerrard & Co., A. J., Des Plaines, Ill.
 Graham Mfg. Corp., Needham Hts., Mass.
 K. S. M. Products Co., Moorestown, N. J.
 Lane Sheet Metal, Minot, N. D.
 Marman Div., Aeroquip Corp., Los Angeles, Calif.
 Maurlee Co., Inc., Woodbury Heights, N. J.
 Miracle Adhesives Corp., Bellmore, L.I., N. Y.
 Moore, Inc., Goodloe, E., Danville, Ill.
 Mueller Co., Paul, Springfield, Mo.
 Nelson Stud Welding Div., Gregory Industries, Inc., Lorain, O.
 Ramset Fastening System, Winchester-Western Div., Olin
 Mathieson Chemical Corp., New Haven, Conn.
 Shielded Stud Welding Co., Long Beach, Calif.
 Stic-Klip Mfg. Co., Inc., Cambridge, Mass.

Tinnerman Corp., Geo. A., Cleveland, O.
Western Wire Products Co., St. Louis, Mo.

FASTENINGS, SHEET METAL

Allmetal Screw Products Co., Inc., Garden City, N. Y.
Camloc Fastener Corp., Paramus, N. J.
Carr Fastener Co. Div. United-Carr Fastener Corp., Cambridge, Mass. (Studs, clips, receptacles, special nuts, etc.)
Champion Furnace Pipe Co., Peoria, Ill.
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Diamond Expansion Bolt Co., Inc., Garwood, N. J.
Fabricated Products Co., West Newton, Pa.
Hexdall Co., A. M., Morris, Ill. (Duct hanger)
Lane Sheet Metal, Minot, N.D. (Duct hanger)
Pfeifer Bros., New York, N. Y. (Corrugated roofing sheet fasteners)
Ramsel Fastening System, Winchester-Western Div., Olin Mathieson Chemical Corp., New Haven, Conn.
Shakeproof Div., Illinois Tool Works, Elgin, Ill.
Snappy Inc., Detroit Lakes, Minn. (Round duct hangers)
Southco Div., South Chester Corp., Lester, Pa.
Star Expansion Bolt Co., New York, N. Y.
Star Stainless Screw Co., Paterson, N. J.
Tinnerman Corp., Geo. A., Cleveland, Ohio.

FELT, ROOFING

Barber Co., Inc., Philadelphia, Pa.
Barrett Div. Allied Chemical Corp., New York, N. Y.
Carey Mfg. Co., Philip, Cincinnati, Ohio.
Celotex Corp., Chicago, Ill.
Certain-teed Products Corp., Ardmore, Pa.
Detroit Steel Products Co., Detroit, Mich.
Flintkote Co., New York, N. Y.
Globe Roofing Products Co., Inc., Whiting, Ind.
Johns-Manville, New York, N. Y.
Keasbey & Mattison Co., Ambler, Pa.
Koppers Co., Inc., Pittsburgh, Pa.
Lexsco, Inc., Solon, O.
National Mfg. Corp., Tonawanda, N. Y.
Ohio Paper Co., Miamisburg, Ohio.
Owens-Corning Fiberglas Corp., New York, N. Y.
Pacific States Felt & Mfg. Co., Inc., San Francisco, Calif.
Reilly Tar & Chemical Corp., Indianapolis, Ind.
Ruberoid Co., New York, N. Y.
United States Gypsum Co., Chicago, Ill.

FIBERS FOR AIR FILTERS

American Felt Co., Glenville, Conn.
American Viscose Corp., New York, N. Y.
Arco Mfg. Corp., New York, N. Y.
Celanese Corp. of America, Charlotte, N. C.
Chicopee Mills, Inc., New York, N. Y.
du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
Eastman Chemical Products, Inc., Subsidiary Eastman Kodak Co., Kingsport, Tenn.
Enjay Co., New York, N. Y.
Filt-R-Ite Co., Chicago, Ill.
Foamade Industries, Oak Park, Mich.
Microtron Corp., Charlotte, N. C.
National Aniline Div., Allied Chemical & Dye Corp., New York, N. Y.
Pittsburgh Plate Glass Co., Pittsburgh, Pa.
Reichhold Chemicals, Inc., White Plains, N.Y.
Scott Paper Co., Chester, Pa.
Wickford Products, Inc., Bronx, N.Y.

FILING MACHINES

See Machines, Sheet Metal Working, Filing

FILTER ADHESIVES

See Oils, for Coating Viscous Air Filters

FILTER FIBERS

See Fibers for Air Filters

FILTER FRAMES

See Frames for Holding Panel Type Air Filters

FILTER GAGES

See Gages, Indicating, Filter Resistance

FILTER MEDIA

See Fibers for Air Filters

FILTERS, AIR, AUTOMATIC, DRY

American Air Filter Co., Inc., Louisville, Ky.
Continental Air Filters, Inc., Louisville, Ky.
Day Co., Minneapolis, Minn.
Ducon Co., The, Mineola, N. Y.
Farr Co., Los Angeles, Calif.
Flanders Filters, Inc., Riverhead, L.I., N. Y.
Green Fuel Economizer Co., Inc., Beacon, N. Y.
Microtron Corp., Charlotte, N.C.

FILTERS, AIR, AUTOMATIC, VISCOUS

Air-Maze Corp., Cleveland, O.
American Air Filter Co., Inc., Louisville, Ky.
Continental Air Filters, Inc., Louisville, Ky.
Dollinger Corp., Rochester, N. Y.
Farr Co., Los Angeles, Calif.

FILTERS, AIR, ELECTRONIC

See Cleaners, Air, Electronic

FILTERS, AIR, GREASE (SPECIFICALLY DESIGNED FOR KITCHEN EXHAUST SYSTEMS)

Air-Con Filter Corp., Memphis, Tenn.
Air Devices, Inc., New York, N. Y.
Air Filter Corp., Milwaukee, Wis.
Air-Maze Corp., Cleveland, Ohio.
American Air Filter Co., Inc., Louisville, Ky.
Carey Electronic Engineering Co., Metal Wool Div., Springfield, O.
Continental Air Filters, Inc., Louisville 1, Ky.
Dollinger Corp., Rochester, N. Y.
Evans Corp., George, Moline, Ill. (Aluminum)
Farr Co., Los Angeles, Calif.
Research Products Corp., Madison, Wis.
Smith Filter Corp., Moline, Ill.

FILTERS, AIR, HIGH TEMPERATURE

For use in filtering air at temperatures of 1000 F or above

Cambridge Filter Corp., Syracuse, N. Y.
Continental Air Filters, Inc., Louisville, Ky.
Farr Co., Los Angeles, Calif.
Flanders Filters, Inc., Riverhead, L. I., N. Y.

FILTERS, AIR, MANUAL, DRY

Continental Air Filters, Inc., Louisville, Ky.
Ducon Co., The, Mineola, N. Y.
Fairway Div., Detroit, Mich.

FILTERS, AIR, PANEL, DRY

A C Products, Inc., Houston, Tex.
Air-Maze Corp., Cleveland, O.
American Air Filter Co., Inc., Louisville, Ky.
Annis Air Filter Div., Royal Heaters, Inc., Alhambra, Calif.
Arco Mfg. Corp., New York, N. Y.
Buckeye Mfg. Inc., Columbus, O.
Burke and Co., Los Angeles, Calif.

Burnett, Jr., Inc., J. F., Rochester, N. Y.
 Cambridge Filter Corp., Syracuse, N. Y.
 Carey Electronic Engineering Co., Metal Wool Div., Springfield, O.
 Continental Air Filters, Inc., Louisville, Ky.
 Dollinger Corp., Rochester, N. Y.
 Dornback Furnace and Foundry Co., Eastlake, O.
 Filt-R-Ite Co., Chicago, Ill.
 Fram Aire Corp., Div. of Fram Corp., Providence, R. I.
 Permatron Corp., Chicago, Ill.
 Pittsburgh Plate Glass Co., Pittsburgh, Pa.
 Pollen Ex., Chicago, Ill.
 Research Products Corp., Madison, Wis.
 Somers Corp., Detroit, Mich. (Hair and glass)
 Star Woolen Co., Cohoes, N. Y.
 Union Carbide Plastics Co., Div. of Union Carbide Corp., New York, N. Y.
 Vernco Corp., Columbus, Ind.
 Viking Air Products Div. of The Lau Blower Co., Cleveland, O.

FILTERS, AIR, PANEL, DRY, COMBINED WITH ACTIVATED CHARCOAL FOR ODOR CONTROL

American Air Filter Co., Inc., Louisville, Ky.
 Barnebey-Cheney Co., Columbus, O.
 Burke and Co., Los Angeles, Calif.
 Cambridge Filter Corp., Syracuse, N. Y.
 Connor Engineering Corp., Danbury, Conn.
 Flanders Filters, Inc., Riverhead, L.I., N. Y.
 Pafcon Products Corp., Wickliffe, O.

FILTERS, AIR, PANEL, DRY, SUB-MICRON PARTICULATE

Cambridge Filter Corp., Syracuse, N. Y.
 Farr Co., Los Angeles, Calif.
 Flanders Filters, Inc., Riverhead, L.I., N. Y.
 Mine Safety Appliances Co., Pittsburgh, Pa.

FILTERS, AIR, PANEL, VISCOUS

Air-Con Filter Corp., Memphis, Tenn. (Steel and aluminum)
 Air Devices, Inc., New York, N. Y. (Steel wire mesh)
 Air & Refrigeration Corp., New York, N. Y. (Fiberglass)
 Air Filter Corp., Milwaukee, Wis. (Wire cloth)
 Air-Maze Corp., Cleveland, Ohio. (Metal wire baffles)
 American Air Filter Co., Inc., Louisville, Ky. (Glass fibers)
 American Rock Wool Co., Chicago, Ill.
 Armour Alliance Industries, Alliance, O.
 Associated Mills Inc., Chicago, Ill.
 Bard Mfg. Co., Bryan, O. (Aluminum)
 Continental Air Filters, Inc., Louisville, Ky. (Steel & aluminum)
 Coppus Engineering Corp., Worcester, Mass. (Felt)
 Dollinger Corp., Rochester, N. Y. (Feltex, Glastex, heat resistant cotton)
 Evans Corp., George, Moline, Ill. (Aluminum)
 Farr Co., Los Angeles, Calif. (Metal)
 Master Products Co., Chicago, Ill. (Rubber treated nair)
 Research Products Corp., Madison, Wis. (Metal)
 Skuttle Mfg. Co., Milford, Mich.
 Smith Filter Corp., Moline, Ill. (Aluminum)
 Time Tested Products Co., Houston, Tex. (Hair)

FILTERS, AIR, PANEL, WITH PLASTIC MEDIA

Auto-Flo Corp., Detroit, Mich.
 Besser Furnace and Air Conditioning Corp., Charlotte, N. C.
 Continental Air Filters, Inc., Louisville, Ky.
 DuraLast Products Corp., New Orleans, La.
 Eaton Air Filter Co., Detroit, Mich.
 Goodyear Tire & Rubber Co., Akron, O.
 Harvey-Hill, Inc., St. Louis, Mo.
 Microtron Corp., Charlotte, N. C.
 Permatron Corp., Chicago, Ill.
 Safeguard Corp., Lansdale, Pa.
 Skuttle Mfg. Co., Milford, Mich.
 Stoddard Industries, Inc., Cudahy, Wis.

FILTERS, AIR, THROWAWAY

Airgard Mfg. Co., Chicago, Ill.

American Air Filter Co., Inc., Louisville, Ky.
 Arco Mfg. Corp., New York, N. Y. (Synthetic fiber)
 Barnebey-Cheney Co., Pur Air Div., Columbus, O.
 Brauer Supply Co., St. Louis, Mo.
 C.L.B. Co., Houston, Tex.
 Cambridge Filter Corp., Syracuse, N. Y. (Replaceable cartridge)
 Drico Industrial Corp., Passaic, N. J.
 Filt-R-Ite Co., Chicago, Ill.
 Harvey, Inc., Sid, Valley Stream, N. Y.
 Kendall Co., Walpole, Mass.
 Lennox Industries Inc., Marshalltown, Ia.
 Mamco Corp., Racine, Wis.
 Metal Industries, Inc., Clearwater, Fla.
 Pittsburgh Plate Glass Co., Pittsburgh, Pa.
 Technical Filter Co., Chicago, Ill.
 Wickford Products, Inc., Bronx, N. Y.

FILTERS, FUEL OIL

Air-Maze Corp., Cleveland, O.
 Auto-Flo Corp., Detroit, Mich.
 Barclay, Inc., Robt., Chicago, Ill.
 Burn-Rite Products Co., Yonkers, N. Y.
 Carlson Co., Inc., A. B., Aurora, Ill.
 Commercial Filters Corp., Melrose, Mass.
 Cuno Engineering Corp., Meriden, Conn.
 Eddington Metal Specialty Co., Eddington, Pa.
 Fairway Division, Detroit, Mich.
 Fram Aire Corp., Div. of Fram Corp., Providence, R. I.
 General Filters, Inc., Novi, Mich.
 Harvey, Inc., Sid, Valley Stream, N. Y.
 Klemm Automotive Products Co., Chicago, Ill.
 Kraissl Co., Inc., Hackensack, N. J.
 Lee Filter Corp., Edison, N. J.
 McIntire Co., Livingston, N. J.
 Morse-Smith-Morse Co., The, Watertown, Mass.
 Norwood Products Co., Div. A. R. Wood Mfg. Co., Luverne, Minn.
 Preferred Utilities Mfg. Corp., New York, N. Y.
 Purolator Products, Inc., Rahway, N. J.
 Rega Mfg. Co., Rochester, N. Y.
 Sette Products Co., Oakland, Calif.
 Shelton Co., New Haven, Conn.
 Sparkler Mfg. Co., Conroe, Texas
 Standard Automatic Oil Burner Co., Newark, N. J.
 Tool Industries, Inc., Detroit, Mich.
 W.G.B. Oil Clarifier, Inc., Kingston, N. Y.
 Wix Corp., Gastonia, N. C.

FILTERS, ODOR

See Adsorbers, Odor, for Duct Systems

FILTERS, SELF CHARGING

See Filters, Air, Panel, with Plastic Media

FIRE BRICK

See Refractories

FIREPLACES, METAL

Bennett-Ireland, Inc., Norwich, N. Y.
 Chimney Sales Corp., Washington, D. C.
 Donley Bros. Co., Cleveland, O.
 Dollinger Corp., Rochester, N. Y.
 Majestic Co., Inc., Huntington, Ind.
 Savannah Chimney Mfg., Inc., Savannah, Ga.
 Vega Industries, Inc., Syracuse, N. Y.

FIREPOTS

See Parts, Rebuilt, for Heating and Cooling Systems

FITTINGS, AIRTIGHT, FOR HIGH VELOCITY DUCT SYSTEMS

See Duct Fittings, Airtight, for High Velocity Duct Systems

FITTINGS, CONDUCTOR

See Pipe and Fittings, Conductor

FITTINGS, COPPER TUBE, COMPRESSION AND FLARED

Anaconda American Brass Co., Waterbury, Conn.
Anderson Metals Corp., Kansas City, Mo.
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Commonwealth Brass Corp., Detroit, Mich.
Everhot Products Co., Chicago, Ill.
Fisher Brass Foundry and Mfg., Los Angeles, Calif.
Hays Mfg. Co., Erie, Pa.
Imperial Brass Mfg. Co., Chicago, Ill.
Kerotest Mfg. Co., Pittsburgh, Pa.
Lincoln Brass Works, Detroit, Mich.
Madden Brass Products Co., Aurora, Ill.
Mueller Brass Co., Port Huron, Mich.
Mueller Co., Decatur, Ill.
Nibco Inc., Elkhart, Ind.
Oil Equipment Mfg. Co., New Haven, Conn.
Parker Fittings & Hose Div., Parker-Hannifin Corp., Cleveland, O.
Piper Industries Inc., Roseville, Mich.
Remco, Inc., Zelienople, Pa.
Superior Valve and Fittings Co., Pittsburgh, Pa.
Weatherhead Co., Fort Wayne Div., Ft. Wayne, Ind.
York Div. of Borg-Warner Corp., York, Pa.

FITTINGS, DUCT

See Duct Fittings

FITTINGS, EXHAUST, GARAGE

For Attaching Car Exhaust Pipe

Anaconda Metal Hose Div., American Brass Co., Waterbury, Conn.
Ammerman Co., Inc., Stillwater, Minn.
Engwald Corp., The, Inwood, L.I., N. Y.
Kent-Moore Organization, Inc., Warren, Mich.
Wendt Co., O. A., Chicago, Ill.

FITTINGS, GUTTER

See Gutter Accessories

FITTINGS, HUMIDIFIER, WATER LINE

Arkton Products Co., Cleveland, O.
Auto-Flo Corp., Detroit, Mich.
Fairway Division, Detroit, Mich.
Imperial Brass Mfg. Co., Chicago, Ill.
Lincoln Brass Works, Detroit, Mich.
Maid-O'-Mist, Inc., Chicago, Ill.
Skuttle Mfg. Co., Milford, Mich.

FITTINGS, PIPE, SLIP-ON

Guardian Products Corp., Michigan City, Ind.
Hollaender Mfg. Co., Cincinnati, O.
Slip-On Co., The, Atlanta, Ga.

FLANGING MACHINES

See Machines, Flanging

FLASHINGS, ROOF, PREFABRICATED

Acme Roof Jacket Co., Minneapolis, Minn.
American Metal Products, Los Angeles, Calif.
Appleton Supply Co., Inc., Appleton, Wis.
Associated Metal Products Corp., La Porte, Ind.
Atchison Specialty Mfg. Co., Atchison, Kans.
Berger Div., Republic Steel Corp., Canton, Ohio.
Bowman Steel Corp., Pittsburgh, Pa.
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Cheney Flashing Co., Trenton, N. J.
Division Lead Co., Summit, Ill.

Flashrite, Inc., Cheyenne, Wyo.
Flemm Lead Co., Inc., Long Island City, N. Y.
Fry Reglet Corp., Los Angeles, Calif.
Higgins Metal Products Co., The, Swanton, O.
Hussey & Co., C. G., Pittsburgh, Pa.
Inland Steel Products Co., Milwaukee, Wis.
Johns-Manville, New York, N. Y.
Keystone Flashing Co., Philadelphia, Pa.
Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif.
Ludlow Papers, A Division of Ludlow Corp., Needham Heights, Mass.
National Lead Co., New York City, N. Y.
New Delphos Mfg. Co., Delphos, Ohio.
Nichols Wire & Aluminum Co., Davenport, Iowa.
Northwest Metal Products, Inc., Seattle, Wash.
Penn Supply & Metal Corp., Philadelphia, Pa.
Perkinson, William J., Chicago, Ill.
Pioneer Sand & Gravel, Seattle, Wash.
Plasteel Products Co., Washington, Pa.
Quaker State Metals Co., Lancaster, Pa.
Reeves Steel & Mfg. Co., Div. of Empire-Reeves Steel Corp., Dover, Ohio.
Republic Steel Corp., Cleveland, O.
Revere Copper & Brass Inc., New York, N. Y.
Royal-Apex Mfg. Co., Inc., Brooklyn, N. Y.
Schoedinger, F. O., Columbus, Ohio.
Simplex Mfg. Co., Fond du Lac, Wis.
Simpson Co., Oakland, Calif.
Tennessee Coal & Iron Div., U. S. Steel Corp., Fairfield, Ala.
Van Noorden Co., E., Boston, Mass.
Wallace Co., William, Metalbestos Div., Belmont, Calif.
Wheeling Corrugating Co., Wheeling, W. Va.

FLASHINGS, THROUGH-WALL, PREFABRICATED

Anaconda American Brass Co., Waterbury, Conn.
Associated Metal Products Corp., La Porte, Ind.
Bowman Steel Corp., Pittsburgh, Pa.
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Cheney Flashing Co., Trenton, N. J.
Division Lead Co., Summit, Ill.
Downs-Smith Brass & Copper Co., Inc., Long Island City, N. Y.
Hussey & Co., C. G., Pittsburgh, Pa.
Keystone Flashing Co., Philadelphia, Pa.
Los Angeles Sheet Metal Mfg. Co., Los Angeles, Calif.
New Delphos Mfg. Co., Delphos, Ohio.
Perkinson, William J., Chicago, Ill.
Phoenix Building Products, Inc., Philadelphia, Pa. (Copper and lead)
Revere Copper and Brass Inc., New York, N. Y.
Van Noorden Co., E., Boston, Mass.
Wasco Products, Inc., Cambridge, Mass.

FLEXIBLE DUCT

See Ducts, Flexible

FLEXIBLE REFRIGERANT LINE CONNECTIONS

See Absorbers, Vibration, for Refrigerant Lines

FLOAT VALVES, FUEL OIL

See Controls, Fuel Oil Metering Valves

FLOOR REGISTERS

See Diffusers, Air, Floor, also Grilles, Heating, Ventilating and Air Conditioning

FLUE GAS ANALYZERS

See Analyzers, CO, Portable

FLUX, ACID

All-State Welding Alloys Co., Inc., White Plains, N. Y.
Allen Co., Inc., L. B., Schiller Park, Ill.
Alpha Metals, Inc., Jersey City, N. J.

American Solder & Flux Co., Philadelphia, Pa.
 Anchor Metal Co., Inc., Brooklyn, N. Y.
 Benson Co., Inc., Alex R., New Hartford, N. Y.
 Carajon Chemical Co., Inc., Fremont, Mich.
 Division Lead Co., Summit, Ill.
 Dunton Co., M. W., Providence, R. I.
 du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
 Farrelloy Co., Philadelphia, Pa.
 Fusion Engineering, Cleveland, O.
 Glaser Lead Co., Inc., Brooklyn, N. Y.
 Hercules Chemical Co., Inc., New York, N. Y.
 Kester Solder Co., Chicago, Ill.
 Klem Chemicals, Inc., Dearborn, Mich.
 Lenk Mfg. Co., Franklin, Ky.
 National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
 National Lead Co., New York, N. Y.
 Neilson Chemical Co., Detroit, Mich.
 Paul-Lewis Laboratories, Inc., Milwaukee, Wis.
 Ruby Chemical Co., Columbus, O.
 S. O. S. Products Co., Inc., Brooklyn, N. Y.
 Superior Flux & Mfg. Co., Cleveland, O.
 Tinit Mfg. Co., Inc., Denver, Colo.
 United Wire & Supply Corp., Providence, R. I.
 Wolfe-Kote Co., Sheboygan, Wis.

FLUX, ALUMINUM

All-State Welding Alloys Co., Inc., White Plains, N. Y.
 Allen Co., Inc., L. B., Schiller Park, Ill.
 Alpha Metals, Inc., Jersey City, N. J.
 Aluminum Co. of America, Pittsburgh, Pa.
 American Products Corp., Chicago, Ill.
 American Solder & Flux Co., Philadelphia, Pa.
 Anchor Metal Co., Inc., Brooklyn, N. Y.
 Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y.
 Farrelloy Co., Philadelphia, Pa.
 Fusion Engineering, Cleveland, O.
 Glaser Lead Co., Inc., Brooklyn, N. Y.
 Johnson Gas Appliance Co., Cedar Rapids, Ia.
 Johnson Mfg. Co., Inc., Mt. Vernon, Ia.
 Kester Solder Co., Chicago, Ill.
 Lake Chemical Co., Chicago, Ill.
 Linde Co., Div. Union Carbide Corp., New York, N. Y.
 Modern Engineering Co., St. Louis, Mo.
 National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
 National Lead Co., New York, N. Y.
 Superior Flux & Mfg. Co., Cleveland, O.

FLUX, BRASS

All-State Welding Alloys Co., Inc., White Plains, N. Y.
 Allen Co., Inc., L. B., Schiller Park, Ill.
 Alpha Metals, Inc., Jersey City, N. J.
 American Products Corp., Chicago, Ill.
 American Solder & Flux Co., Philadelphia, Pa.
 Anchor Metal Co., Inc., Brooklyn, N. Y.
 Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y.
 Benson Co., Inc., Alex R., New Hartford, N. Y.
 Division Lead Co., Summit, Ill.
 Dunton Co., M.W., Providence, R. I.
 du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
 Farrelloy Co., Philadelphia, Pa.
 Fusion Engineering, Cleveland, O.
 Handy & Harman, New York, N. Y.
 Hercules Chemical Co., Inc., New York, N. Y.
 Johnson Mfg. Co., Inc., Mt. Vernon, Ia.
 Lake Chemical Co., Chicago, Ill.
 Linde Co., Div. Union Carbide Corp., New York, N. Y.
 Modern Engineering Co., St. Louis, Mo.
 Mueller Brass Co., Port Huron, Mich.
 National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
 National Lead Co., New York, N. Y.
 Paul-Lewis Laboratories, Inc., Milwaukee, Wis.
 Rexarc, Inc., Sight Feed Generator Div., West Alexandria, O.
 RotoMetals, San Francisco, Calif.
 S. O. S. Products Co., Inc., Brooklyn, N. Y.
 Superior Flux & Mfg. Co., Cleveland, O.
 Tinit Mfg. Co., Inc., Denver, Colo.

FLUX, CAST IRON

All-State Welding Alloys Co., Inc., White Plains, N. Y.

Allen Co., Inc., L. B., Schiller Park, Ill.
 Alpha Metals, Inc., Jersey City, N. J.
 American Products Corp., Chicago, Ill.
 American Solder & Flux Co., Philadelphia, Pa.
 Anchor Metal Co., Inc., Brooklyn, N. Y.
 Division Lead Co., Summit, Ill.
 Farrelloy Co., Philadelphia, Pa.
 Handy & Harman, New York, N. Y.
 Johnson Mfg. Co., Inc., Mt. Vernon, Ia.
 Klem Chemicals, Inc., Dearborn, Mich.
 Lenk Mfg. Co., Franklin, Ky.
 Linde Co., Div. Union Carbide Corp., New York, N. Y.
 London Chemical Co., Melrose Park, Ill.
 Modern Engineering Co., St. Louis, Mo.
 National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
 National Lead Co., New York, N. Y.
 Rexarc, Inc., Sight Feed Generator Div., West Alexandria, O.
 RotoMetals, San Francisco, Calif.
 Superior Flux & Mfg. Co., Cleveland, O.
 Tinit Mfg. Co., Inc., Denver, Colo.

FLUX, COPPER

All-State Welding Alloys Co., Inc., White Plains, N. Y.
 Allen Co., Inc., L. B., Schiller Park, Ill.
 Alpha Metals, Inc., Jersey City, N. J.
 American Products Corp., Chicago, Ill.
 American Solder & Flux Co., Philadelphia, Pa.
 Anchor Metal Co., Inc., Brooklyn, N. Y.
 Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y.
 Benson Co., Inc., Alex R., New Hartford, N. Y.
 Carajon Chemical Co., Inc., Fremont, Mich.
 Chase Brass & Copper Co., Inc., Waterbury, Conn.
 Division Lead Co., Summit, Ill.
 Dunton Co., M. W., Providence, R. I.
 du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
 Farrelloy Co., Philadelphia, Pa.
 Fusion Engineering, Cleveland, O.
 Glaser Lead Co., Inc., Brooklyn, N. Y.
 Handy & Harman, New York, N. Y.
 Hercules Chemical Co., Inc., New York, N. Y.
 Industrial Service Laboratories, Milwaukee, Wis.
 Johnson Mfg. Co., Inc., Mt. Vernon, Ia.
 Kester Solder Co., Chicago, Ill.
 Kirk & Son, Inc., Morris P., Los Angeles, Calif.
 Klem Chemicals, Inc., Dearborn, Mich.
 Lake Chemical Co., Chicago, Ill.
 Lenk Mfg. Co., Franklin, Ky.
 London Chemical Co., Melrose Park, Ill.
 Mueller Brass Co., Port Huron, Mich.
 National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
 National Lead Co., New York, N. Y.
 Paul-Lewis Laboratories, Inc., Milwaukee, Wis.
 Pfantstiehl Laboratories, Inc., Waukegan, Ill.
 Rexarc, Inc., Sight Feed Generator Div., West Alexandria, O.
 RotoMetals, San Francisco, Calif.
 Ruby Chemical Co., Columbus, O.
 S. O. S. Products Co., Inc., Brooklyn, N. Y.
 Superior Flux & Mfg. Co., Cleveland, O.
 Tinit Mfg. Co., Inc., Denver, Colo.

FLUX, GALVANIZED STEEL

All-State Welding Alloys Co., Inc., White Plains, N. Y.
 Allen Co., Inc., L. B., Schiller Park, Ill.
 Alpha Metals, Inc., Jersey City, N. J.
 American Solder & Flux Co., Philadelphia, Pa.
 Anchor Metal Co., Inc., Brooklyn, N. Y.
 Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y.
 Benson Co., Inc., Alex R., New Hartford, N. Y.
 Carajon Chemical Co., Inc., Fremont, Mich.
 Division Lead Co., Summit, Ill.
 Dunton Co., M. W., Providence, R. I.
 du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
 Farrelloy Co., Philadelphia, Pa.
 Fusion Engineering, Cleveland, O.
 Glaser Lead Co., Inc., Brooklyn, N. Y.
 Handy & Harman, New York, N. Y.
 Hercules Chemical Co., Inc., New York, N. Y.
 Industrial Service Laboratories, Milwaukee, Wis.
 Johnson Mfg. Co., Inc., Mt. Vernon, Ia.
 Kester Solder Co., Chicago, Ill.
 Kirk & Son, Inc., Morris P., Los Angeles, Calif.
 Klem Chemicals, Inc., Dearborn, Mich.

Lake Chemical Co., Chicago, Ill.
 London Chemical Co., Melrose Park, Ill.
 National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
 National Lead Co., New York, N. Y.
 Paul-Lewis Laboratories, Inc., Milwaukee, Wis.
 Pfanstiehl Laboratories, Inc., Waukegan, Ill.
 RotoMetals, San Francisco, Calif.
 Ruby Chemical Co., Columbus, O.
 S. O. S. Products Co., Inc., Brooklyn, N. Y.
 Tinit Mfg. Co., Inc., Denver, Colo.

FLUX, INCONEL

All-State Welding Alloys Co., Inc., White Plains, N. Y.
 Allen Co., Inc., L. B., Schiller Park, Ill.
 Alpha Metals, Inc., Jersey City, N. J.
 American Products Corp., Chicago, Ill.
 American Solder & Flux Co., Philadelphia, Pa.
 Anchor Metal Co., Inc., Brooklyn, N. Y.
 Division Lead Co., Summit, Ill.
 Farrelloy Co., Philadelphia, Pa.
 Handy & Harman, New York, N. Y.
 International Nickel Co., Inc., New York, N. Y.
 Johnson Mfg. Co., Inc., Mt. Vernon, Ia.
 National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
 Superior Flux & Mfg. Co., Cleveland, O.

FLUX, LEAD-TIN

Allen Co., Inc., L. B., Schiller Park, Ill.
 All-State Welding Alloys Co., Inc., White Plains, N. Y.
 Alpha Metals, Inc., Jersey City, N. J.
 Amchem Products, Inc., Ambler, Pa.
 American Products Corp., Chicago, Ill.
 Anchor Metal Co., Inc., Brooklyn, N. Y.
 Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y.
 Benson Co., Inc., Alex R., New Hartford, N. Y.
 Carajon Chemical Co., Inc., Fremont, Mich.
 Division Lead Co., Summit, Ill.
 Dunton Co., M. W., Providence, R. I.
 du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
 Farrelloy Co., Philadelphia, Pa.
 Fusion Engineering, Cleveland, O.
 Glaser Lead Co., Inc., Brooklyn, N. Y.
 Hercules Chemical Co., Inc., New York, N. Y.
 International Nickel Co., Inc., New York, N. Y.
 Johnson Gas Appliance Co., Cedar Rapids, Ia.
 Johnson Mfg. Co., Inc., Mt. Vernon, Ia.
 Kester Solder Co., Chicago, Ill.
 Kirk & Son, Inc., Morris P., Los Angeles, Calif.
 Klem Chemicals, Inc., Dearborn, Mich.
 Lake Chemical Co., Chicago, Ill.
 Lukens Metal Co., Thos. F., Philadelphia, Pa.
 National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
 National Lead Co., New York, N. Y.
 Paul-Lewis Laboratories, Inc., Milwaukee, Wis.
 RotoMetals, San Francisco, Calif.
 Ruby Chemical Co., Columbus, O.
 S. O. S. Products Co., Inc., Brooklyn, N. Y.
 Superior Flux & Mfg. Co., Cleveland, O.
 Tinit Mfg. Co., Inc., Denver, Colo.

FLUX, MONEL

All-State Welding Alloys Co., Inc., White Plains, N. Y.
 Allen Co., Inc., L. B., Schiller Park, Ill.
 Alpha Metals, Inc., Jersey City, N. J.
 American Products Corp., Chicago, Ill.
 American Solder & Flux Co., Philadelphia, Pa.
 Anchor Metal Co., Inc., Brooklyn, N. Y.
 Division Lead Co., Summit, Ill.
 Farrelloy Co., Philadelphia, Pa.
 Handy & Harman, New York, N. Y.
 Johnson Mfg. Co., Inc., Mt. Vernon, Ia.
 National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
 RotoMetals, San Francisco, Calif.
 Ruby Chemical Co., Columbus, O.
 Superior Flux & Mfg. Co., Cleveland, O.
 Wolfe-Kote Co., Sheboygan, Wis.

FLUX, NICKEL

All-State Welding Alloys Co., Inc., White Plains, N. Y.

Allen Co., Inc., L. B., Schiller Park, Ill.
 Alpha Metals, Inc., Jersey City, N. J.
 American Products Corp., Chicago, Ill.
 American Solder & Flux Co., Philadelphia, Pa.
 Anchor Metal Co., Inc., Brooklyn, N. Y.
 Division Lead Co., Summit, Ill.
 Farrelloy Co., Philadelphia, Pa.
 Handy & Harman, New York, N. Y.
 International Nickel Co., Inc., New York, N. Y.
 Johnson Mfg. Co., Inc., Mt. Vernon, Ia.
 National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
 RotoMetals, San Francisco, Calif.
 Superior Flux & Mfg. Co., Cleveland, O.

FLUX, ROSIN

Allen Co., Inc., L. B., Schiller Park, Ill.
 Alpha Metals, Inc., Jersey City, N. J.
 American Solder & Flux Co., Philadelphia, Pa.
 Anchor Metal Co., Inc., Brooklyn, N. Y.
 Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y.
 Benson Co., Inc., Alex R., New Hartford, N. Y.
 Division Lead Co., Summit, Ill.
 Dunton Co., M. W., Providence, R. I.
 Farrelloy Co., Philadelphia, Pa.
 Fusion Engineering, Cleveland, O.
 Glaser Lead Co., Inc., Brooklyn, N. Y.
 Hercules Chemical Co., Inc., New York, N. Y.
 Johnson Mfg. Co., Inc., Mt. Vernon, Ia.
 Kester Solder Co., Chicago, Ill.
 Lake Chemicals Co., Chicago, Ill.
 London Chemical Co., Melrose Park, Ill.
 Lukens Metal Co., Thos. F., Philadelphia, Pa.
 National Lead Co., New York, N. Y.
 Pfanstiehl Laboratories, Inc., Waukegan, Ill.
 Ruby Chemical Co., Columbus, O.
 S. O. S. Products Co., Inc., Brooklyn, N. Y.
 Superior Flux & Mfg. Co., Cleveland, O.
 United Wire & Supply Corp., Providence, R. I.

FLUX, SILVER

All-State Welding Alloys Co., Inc., White Plains, N. Y.
 Allen Co., Inc., L. B., Schiller Park, Ill.
 Alpha Metals, Inc., Jersey City, N. J.
 American Products Corp., Chicago, Ill.
 American Silver Co., Inc., Flushing, N. Y.
 American Solder & Flux Co., Philadelphia, Pa.
 Anchor Metal Co., Inc., Brooklyn, N. Y.
 Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y.
 Division Lead Co., Summit, Ill.
 Dunton Co., M. W., Providence, R. I.
 Engelhard Industries Inc., American Platinum and Silver Div., Newark, N. J.
 Farrelloy Co., Philadelphia, Pa.
 Fusion Engineering, Cleveland, O.
 Handy & Harman, New York, N. Y.
 Johnson Mfg. Co., Inc., Mt. Vernon, Ia.
 Lake Chemicals Co., Chicago, Ill.
 Lukens Metal Co., Thos. F., Philadelphia, Pa.
 National Lead Co., New York, N. Y.
 Superior Flux & Mfg. Co., Cleveland, O.
 United Wire & Supply Corp., Providence, R. I.
 Wabash Corp., Chicago, Ill.

FLUX, STAINLESS STEEL

All-State Welding Alloys Co., Inc., White Plains, N. Y.
 Allen Co., Inc., L. B., Schiller Park, Ill.
 Alpha Metals, Inc., Jersey City, N. J.
 American Products Corp., Chicago, Ill.
 American Solder & Flux Co., Philadelphia, Pa.
 Anchor Metal Co., Inc., Brooklyn, N. Y.
 Arcos Corp., Philadelphia, Pa.
 Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y.
 Carajon Chemical Co., Inc., Fremont, Mich.
 Division Lead Co., Summit, Ill.
 Dunton Co., M. W., Providence, R. I.
 du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
 Farrelloy Co., Philadelphia, Pa.
 Fusion Engineering, Cleveland, O.
 Glaser Lead Co., Inc., Brooklyn, N. Y.
 Handy & Harman, New York, N. Y.

Industrial Service Laboratories, Milwaukee, Wis.
 Johnson Gas Appliance Co., Cedar Rapids, Ia.
 Johnson Mfg. Co., Inc., Mt. Vernon, Ia.
 Kester Solder Co., Chicago, Ill.
 Lake Chemicals Co., Chicago, Ill.
 Langsenkamp Co., F. H., Indianapolis, Ind.
 Lenk Mfg. Co., Franklin, Ky.
 Linde Co., Div. Union Carbide Corp., New York, N. Y.
 London Chemical Co., Melrose Park, Ill.
 Lukens Metal Co., Thos. F., Philadelphia, Pa.
 National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
 National Lead Co., New York, N. Y.
 Paul-Lewis Laboratories, Inc., Milwaukee, Wis.
 RotoMetals, San Francisco, Calif.
 Ruby Chemical Co., Columbus, O.
 Superior Flux & Mfg. Co., Cleveland, O.
 Tinit Mfg. Co., Inc., Denver, Colo.
 Wolfe-Kote Co., Sheboygan, Wis.

FLUX, WELDING

Air Reduction Sales Co., New York, N. Y.
 All-State Welding Alloys Co., Inc., White Plains, N. Y.
 Allen Co., Inc., L. B., Schiller Park, Ill.
 Aluminum Co. of America, Pittsburgh, Pa.
 American Products Corp., Chicago, Ill.
 American Solder & Flux Co., Philadelphia, Pa.
 Anchor Metal Co., Inc., Brooklyn, N. Y.
 Chase Brass & Copper Co., Inc., Waterbury, Conn.
 Dunton Co., M. W., Providence, R. I.
 Farrelloy Co., Los Angeles, Calif.
 Harrison Paint & Varnish Co., The, Midland Industrial Div., Canton, O.
 Hobart Bros. Co., Troy, O.
 International Nickel Co., Inc., New York, N. Y.
 Johnson Gas Appliance Co., Cedar Rapids, Ia.
 Johnson Mfg. Co., Inc., Mt. Vernon, Ia.
 Lincoln Electric Co., Cleveland, O.
 Linde Co., Div. Union Carbide Corp., New York, N. Y.
 Modern Engineering Co., St. Louis, Mo.
 National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
 Rexarc, Inc., Sight Feed Generator Div., West Alexandria, O.
 Superior Flux & Mfg. Co., Cleveland, Ohio.
 Tinit Mfg. Co., Inc., Denver, Colo.
 United Wire & Supply Corp., Providence, R. I.
 Victor Equipment Co., San Francisco, Calif.
 Wall Colmonoy Corp., Detroit, Mich.
 Weldit, Inc., Detroit, Mich.

FLUX, ZINC

All-State Welding Alloys Co., Inc., White Plains, N. Y.
 Allen Co., Inc., L. B., Schiller Park, Ill.
 Alpha Metals, Inc., Jersey City, N. J.
 American Solder & Flux Co., Philadelphia, Pa.
 Anchor Metal Co., Inc., Brooklyn, N. Y.
 Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y.
 Division Lead Co., Summit, Ill.
 du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
 Glaser Lead Co., Inc., Brooklyn, N. Y.
 Johnson Mfg. Co., Inc., Mt. Vernon, Ia.
 Linde Air Products Co., Div. Union Carbide & Carbon Corp., New York, N. Y.
 National Lead Co., New York, N. Y.
 Superior Flux & Mfg. Co., Cleveland, O.

FOLDERS

See Machines, Sheet Metal Working, Bar Folding

FRAMES, CHIMNEY CAP

Adams Co., The, Dubuque, Ia.
 Levow, Inc., David, South Hackensack, N. J.

FRAMES, DIFFUSER, GRILLE AND REGISTER

A-J Mfg. Co., Kansas City, Mo.
 Air Control Products, Inc., Coopersville, Mich.
 Barber-Colman Co., Rockford, Ill.

Hart & Cooley Mfg. Co., Holland, Mich.
 Lima Register Co., Lima, O.
 Standard Stamping & Perforating Co., Chicago, Ill.
 Young Regulator Co., Cleveland, O.

FRAMES FOR HOLDING PANEL TYPE AIR FILTERS

Air-Maze Corp., Cleveland, O.
 Evans Corp., George, Moline, Ill.
 Research Products Corp., Madison, Wis.

FRAMES, SHEET SUPPORT

See Supports, Sheet, Magnetic

FRESH AIR INTAKES

See Intakes, Outdoor Air

FRESHENERS, AIR

See Adsorbers, Odor, for Duct Systems; Compounds, Air Freshening

FUEL OIL DEODORIZERS

See Deodorizers, Fuel Oil

FUEL OIL FILTERS

See Filters, Fuel Oil

FUME REMOVAL EQUIPMENT

See Scrubbers, Air

FURNACE BLOWERS

See Blowers; Blower-Filter Units; Blower-Washer Units

FURNACE CEMENT

See Cement, Furnace

FURNACE CLEANERS

See Cleaners, Vacuum, Furnace

FURNACE PIPE

See Pipe and Fittings, Furnace

FURNACE PIPE FITTINGS AND ACCESSORIES

See Pipe and Fittings, Furnace

FURNACE REGULATORS

See Regulators, Furnace Draft, Mechanical; Controls; Control Systems

FURNACE REPAIR PARTS

See Parts, Rebuilt, for Heating and Cooling Systems

FURNACES, FORCED WARM AIR, COUNTERFLOW, GAS FIRED, STEEL

For Perimeter Heating Systems in Slab or Crawl Space Construction

Agricola Furnace Co., Inc., Gadsden, Ala.
 Airtemp Div., Chrysler Corp., Dayton, O.
 American Furnace Co., St. Louis, Mo.

American-Standard Air Conditioning Div., New York, N. Y.
 Anchor Div., Stratton & Terstege Co., Inc., New Albany, Ind.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, O.
 Auburn Burner Co., Edgerton, O.
 Auburn Foundry, Inc., Heating Div., Auburn, Ind.
 Autogas Co., Bellwood, Ill.
 Bard Mfg. Co., Bryan, O.
 Bastian-Morley Co., Inc., La Port, Ind.
 Bonair Div., Peerless Products Co., Philadelphia, Pa.
 Bryant Mfg. Co., Indianapolis, Ind.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Campbell Heating Co., Des Moines, Ia.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Central States Mfg. Co., Inc., Arkansas City, Kans.
 Century Engineering Corp., Cedar Rapids, Ia.
 Chattanooga Royal Co., Chattanooga, Tenn.
 Cobell Industries, Inc., Cleburne, Tex.
 Coleman Co., Inc., Wichita, Kans.
 Columbia Burner Co., Toledo, O.
 Columbia Specialty Co., Inc., Chevy Chase, Md.
 Consolidated Industries, Inc., Lafayette, Ind.
 Cox Mfg. Co., Ridgeville, Ind.
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Custom-Aire Products Div., Pacific Industries, Inc., San Francisco, Calif.
 Day & Night Mfg. Co., La Puente, Calif.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Domestic Mfg. Co., Seattle, Wash.
 Dornback Furnace & Foundry Co., Eastlake, O.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Electric Furnace-Man, Inc., Emmaus, Pa.
 Empire Stove Co., Belleville, Ill.
 Floral City Heater Div., United States Air Conditioning Corp., Monroe, Mich.
 Fraser & Johnston Co., San Francisco, Calif.
 Gaffers & Sattler, Los Angeles, Calif.
 General Electric Co., Air Conditioning Dept., Tyler, Tex.
 Green Colonial Inc., Des Moines, Ia.
 Grove Furnace, Inc., Garden Grove, Calif.
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Heat Controller, Inc., Jackson, Mich.
 Heil-Quaker Corp., Nashville, Tenn.
 Henry Furnace Co., Medina, O.
 Hess Co., The, Chicago, Ill.
 Holly-General Co., Pasadena, Calif.
 International Heater Co., Utica, N. Y.
 Iron Fireman Mfg. Co., Cleveland, O.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Johnson Furnace Co., The, Cleveland, O.
 Kalamazoo Furnace and Appliance Mfg. Co., Kalamazoo, Mich.
 Kaustine Furnace & Tank Corp., Perry, N. Y.
 Kleer-Kleen Mfg. Co., Hayward, Calif.
 Leeson Air Conditioning Corp., Detroit, Mich.
 Lennox Industries Inc., Marshalltown, Ia.
 Lincoln Air Control Products, Inc., Swarthmore, Pa.
 Little Burner Co., Inc., H. C., San Rafael, Calif.
 Lundt, Inc., Ernest C., Little Falls, N. J.
 Majestic Co., Inc., Huntington, Ind.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 McDonald Mfg. Co., A. Y., Dubuque, Ia.
 Metzger Machine & Engineering Co., Thermoflo Div., Milwaukee, Wis.
 Meyer Furnace Co., Peoria, Ill.
 Miami Products Div. of Crane Co., Miami, Okla.
 Midwest Heater Co., Omaha, Nebr.
 Monogram Industries, Inc., Quincy, Ill.
 Montag Inc., Portland, Ore.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Mueller Climatrol, Milwaukee, Wis.
 Muncie Gear Works, Cordele, Ga.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 North Coast Mfg. Corp., Portland, Ore.
 Norwalk Air Conditioning Corp., South Norwalk, Conn.
 Oneida Heater Co., Inc., Oneida, N. Y.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Patten Co., J. V., Sycamore, Ill.
 Payne Co., The, La Puente, Calif.
 Peerless Corp., Indianapolis, Ind.
 Peerless Heater Co., Boyertown, Pa.
 Penn Boiler Div., Pebbco Industries Inc., Lancaster, Pa.
 Perfection Div., Hupp Corp., Cleveland, O.
 Premier Furnace Co., Dowagiac, Mich.
 Radiation Furnace Corp., Benton Harbor, Mich.

Reif-Rexoil, Inc., Buffalo, N. Y.
 Rheem Mfg. Co., Chicago, Ill.
 Richmond Plumbing Fixtures Div., Rheem Mfg. Co., Metuchen, N. J.
 Roberts-Gordon Appliance Co., Buffalo, N.Y.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, O.
 Sandberg Mfg. Co., Portland, Ore.
 Schill Mfg. Co., Crestline, O.
 Sequoia Mfg. Co., San Carlos, Calif.
 Sheet Metal Mfg. Co., Youngstown, O.
 Siegler Corp., Centralia, Ill.
 Silent Automatic Products, Cleveland, O.
 Smith Corp., A. O., Permaglas Div., Kankakee, Ill.
 Southwest Mfg. Co., Aurora, Mo.
 Steel City Furnace Corp., Springdale, Pa.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Lebanon, Ind.
 Syncromatic Corp., Watertown, Wis.
 Temco, Inc., Nashville, Tenn.
 Temperature Appliance Mfg. Corp., Sebastopol, Calif.
 Thermo-Products, Inc., North Judson, Ind.
 Tjernlund Mfg. Co., St. Paul, Minn.
 Toridheat Div., Cleveland Steel Products Corp., Cleveland, O.
 Trane Co., La Crosse, Wis.
 Tuck-Aire Furnace Co., San Francisco, Calif.
 Viking Mfg. Corp., Cleveland, O.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Wayne Home Equipment Co., Inc., Fort Wayne, Ind.
 Wesco Furnace Div., Northwest Foundry & Furnace Co., Portland, Ore.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, O.
 York Div. of Borg-Warner Corp., York, Pa.
 York-Shipley, Inc., York, Pa.
 Zink Co., John, Tulsa, Okla.

FURNACES, FORCED WARM AIR, COUNTERFLOW, OIL FIRED, CAST IRON

For Perimeter Heating Systems in Slab or Crawl Space Construction

Columbia Burner Co., Toledo, O.
 Hart Heat Div., Avery Farm Machinery Co., Peoria, Ill.
 Hess Co., The, Chicago, Ill.
 Waterman-Waterbury Co., The, Minneapolis, Minn.

FURNACES, FORCED WARM AIR, COUNTERFLOW, OIL FIRED, STEEL

For Perimeter Heating Systems in Slab or Crawl Space Construction

Airtemp Div., Chrysler Corp., Dayton, O.
 American Furnace Co., St. Louis, Mo.
 American Standard Air Conditioning Div., New York, N. Y.
 Anchor Div., Stratton & Terstege Co., Inc., New Albany, Ind.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, O.
 Auburn Burner Co., Edgerton, O.
 Auburn Foundry, Inc., Heating Div., Auburn, Ind.
 Autogas Co., Bellwood, Ill.
 Bard Mfg. Co., Bryan, O.
 Besser Furnace and Air Conditioning Corp., Charlotte, N. C.
 Bonair Div., Peerless Products Co., Philadelphia, Pa.
 Bryant Mfg. Co., Indianapolis, Ind.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Campbell Heating Co., Des Moines, Ia.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Century Engineering Corp., Cedar Rapids, Ia.
 Chicago Steel Furnace Co., Elk Grove, Ill.
 Coleman Co., Inc., Wichita, Kans.
 Columbia Specialty Co., Inc., Chevy Chase, Md.
 Cox Mfg. Co., Ridgeville, Ind.
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Domestic Mfg. Co., Seattle, Wash.
 Dornback Furnace & Foundry Co., Eastlake, O.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Electric Furnace-Man, Inc., Emmaus, Pa.

Federal Heating and Cooling Corp., Charlotte, N. C.
 Floral City Heater Div., United States Air Conditioning Corp.,
 Monroe, Mich.
 Front Rank Mfg. Co., Div. Gross Aire Mfg. Co., St. Louis, Mo.
 General Automatic Products Corp., Baltimore, Md.
 General Electric Co., Air Conditioning Dept., Tyler, Tex.
 Green Colonial Inc., Des Moines, Ia.
 Gross Furnace Mfg. Co., Inc., Salem, Va.
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Hart Heat Div., Avery Farm Machinery Co., Peoria, Ill.
 Heil-Quaker Corp., Nashville, Tenn.
 Henry Furnace Co., Medina, O.
 Home Furnace Co., Holland, Mich.
 International Heater Co., Utica, N. Y.
 Iron Fireman Mfg. Co., Cleveland, O.
 Janitrol Heating and Air Conditioning Div., Midland-Ross
 Corp., Columbus, O.
 Johnson Furnace Co., The, Cleveland, O.
 Kalamazoo Furnace and Appliance Mfg. Co., Kalamazoo, Mich.
 Kaustine Furnace & Tank Corp., Perry, N. Y.
 Kleer-Kleen Mfg. Co., Hayward, Calif.
 Leeson Air Conditioning Corp., Detroit, Mich.
 Lennox Industries Inc., Marshalltown, Ia.
 Lincoln Air Control Products, Inc., Swarthmore, Pa.
 Lincoln Furnace Co., Inc., Hawthorne, N. J.
 Lundt, Inc., Ernest C., Little Falls, N. J.
 Majestic Co., Inc., Huntington, Ind.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 McDonald Mfg. Co., A. Y., Dubuque, Ia.
 McPherson Furnace & Supply Co., Portland, Ore.
 Metzger Machine & Engineering Co., Thermoflo Div., Milwau-
 kee, Wis.
 Meyer Furnace Co., Peoria, Ill.
 Miami Products Div. of Crane Co., Miami, Okla.
 Monogram Industries, Inc., Quincy, Ill.
 Montag Inc., Portland, Ore.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Mortemp Corp., Seattle, Wash.
 Mueller Climatrol, Milwaukee, Wis.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 North Coast Mfg. Corp., Portland, Ore.
 Norwalk Air Conditioning Corp., South Norwalk, Conn.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Oneida Heater Co., Inc., Oneida, N. Y.
 Patten Co., J. V., Sycamore, Ill.
 Peerless Corp., Indianapolis, Ind.
 Peerless Heater Co., Boyertown, Pa.
 Penn Boiler Div., Peabco Industries Inc., Lancaster, Pa.
 Perfection Div., Hupp Corp., Cleveland, O.
 Quiet Automatic Burner Corp., Newark, N. J.
 Radiation Furnace Corp., Benton Harbor, Mich.
 Reif-Rexoil, Inc., Buffalo, N. Y.
 Richmond Plumbing Fixtures Div., Rheem Mfg. Co., Metuchen
 N.J.
 Roberts-Gordon Appliance Co., Buffalo, N. Y.
 Roscoe Mfg. Co., Seattle, Wash.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, O.
 Sandberg Mfg. Co., Portland, Ore.
 Schill Mfg. Co., Crestline, O.
 Sheet Metal Mfg. Co., Youngstown, O.
 Silent Automatic Products, Cleveland, O.
 Smith Corp., A. O., Permaglas Div., Kankakee, Ill.
 Steel City Furnace Corp., Springdale, Pa.
 Stewart-Warner Corp., Heating and Air Conditioning Div.,
 Lebanon, Ind.
 Syncromatic Corp., Watertown, Wis.
 Thatcher Furnace Co., Garwood, N.J.
 Thermo-Products, Inc., North Judson, Ind.
 Tjernlund Mfg. Co., St. Paul, Minn.
 Toridheet Div., Cleveland Steel Products Corp., Cleveland, O.
 Trane Co., La Crosse, Wis.
 Tuck-Aire Furnace Co., San Francisco, Calif.
 Typhoon Air Conditioning Co., Div. Hupp Corp., Brooklyn,
 N.Y.
 Viking Mfg. Corp., Cleveland, O.
 Wesco Furnace Div., Northwest Foundry & Furnace Co., Port-
 land, Ore.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Wayne Home Equipment Co., Inc., Fort Wayne, Ind.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Williams Oil-O-Matic Heating Co., Div. of National Union
 Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, O.
 Wisconsin Burners Inc., Madison, Wis.
 York Div. of Borg-Warner Corp., York, Pa.

York-Shipley, Inc., York, Pa.
 Zick Sheet Metal Works, Dearborn, Mich.

FURNACES, FORCED WARM AIR, ELECTRIC

Residential only

American Furnace Co., St. Louis, Mo.
 American-Standard Air Conditioning Div., New York, N.Y.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Coleman Co., Inc., Wichita, Kans.
 Electric Heating Products Co., Phoenix, Ariz.
 Heating Assurance, Inc., Spokane, Wash.
 Henry Furnace Co., Medina, O.
 Lennox Industries Inc., Marshalltown, Ia.
 Majestic Co., Inc., Huntington, Ind.
 Montag Inc., Portland, Ore.
 Mueller Climatrol, Milwaukee, Wis.
 Muncie Gear Works, Cordele, Ga.
 North Coast Mfg. Corp., Portland, Ore.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Rheem Mfg. Co., Chicago, Ill.
 Rybolt Heater Co., Ashland, O.
 Saffell Air Conditioning Co., Phoenix, Ariz.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Leba-
 non, Ind.
 Thermo-Products, Inc., North Judson, Ind.
 Wesco Furnace Div., Northwest Foundry & Furnace Co., Port-
 land, Ore.

FURNACES, FORCED WARM AIR, FLOOR, GAS FIRED

Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind
 Bryant Mfg. Co., Indianapolis, Ind.
 General Air Conditioning Corp., Los Angeles, Calif.
 Kleer-Kleen Mfg. Co., Hayward, Calif.
 Temperature Appliance Mfg. Corp., Sebastopol, Calif.
 Trane Co., La Crosse, Wis.

FURNACES, FORCED WARM AIR, FLOOR, OIL FIRED

Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind
 General Automatic Products Corp., Baltimore, Md.
 Gross Furnace Mfg. Co., Inc., Salem, Va.
 Hart Heat Div., Avery Farm Machinery Co., Peoria, Ill
 Kleer-Kleen Mfg. Co., Hayward, Calif.
 Quiet Automatic Burner Corp., Newark, N. J.
 Thermo Products, Inc., North Judson, Ind.
 Trane Co., La Crosse, Wis.

FURNACES, FORCED WARM AIR, HIGHBOY, COAL FIRED, STEEL

For Basement or Utility Room Installations

American-Standard Air Conditioning Div., New York, N. Y.
 Armstrong Furnace Co., Div. of National Union Electric Corp.,
 Columbus, O.
 Campbell Heating Co., Des Moines, Ia.
 Front Rank Mfg. Co., Div. Gross Aire Mfg. Co., St. Louis, Mo
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Henry Furnace Co., Medina, O.
 Lennox Industries Inc., Marshalltown, Iowa.
 Olsen Mfg. Co., C. A., Elyria, Ohio.
 Oneida Heater Co., Inc., Oneida, N. Y.
 Peerless Corp., Indianapolis, Ind.
 Rybolt Heater Co., Ashland, O.
 Sandberg Mfg. Co., Portland, Ore.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn,
 N. Y.
 Williams Oil-O-Matic Heating Co., Div. of National Union
 Electric Corp., Columbus, O.

FURNACES, FORCED WARM AIR, HIGHBOY, GAS FIRED, CAST IRON

For Basement or Utility Room Installations

Coroaire Heater Corp., Cleveland, O.
 Dornback Furnace & Foundry Co., Eastlake, O.

General Electric Co., Air Conditioning Dept., Tyler, Tex.
Hart Heat Div., Avery Farm Machinery Co., Peoria, Ill.
XXth Century Heating & Ventilating Co., Akron, O.

FURNACES, FORCED WARM AIR, HIGHBOY, GAS FIRED, STEEL

For Basement or Utility Room Installations

Adams Furnace Corp., Paramount, Calif.
Agricola Furnace Co., Inc., Gadsden, Ala.
Airtemp Div., Chrysler Corp., Dayton, Ohio.
American-Standard Air Conditioning Div., New York, N. Y.
Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind.
Armstrong Furnace Co., Div. of National Union Electric Corp.
Columbus, Ohio.
Auburn Burner Co., Edgerton, O.
Auburn Foundry, Inc., Heating Div., Auburn, Ind.
Autogas Co., Bellwood, Ill.
Bard Mfg. Co., Bryan, Ohio.
Basford Mfg. Co., San Francisco, Calif.
Bonair Div., Peerless Products Co., Philadelphia, Pa.
Bryant Mfg. Co., Indianapolis, Ind.
Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
Campbell Heating Co., Des Moines, Ia.
Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse,
N. Y.
Central States Mfg. Co., Inc., Arkansas City, Kans.
Century Engineering Corp., Cedar Rapids, Iowa.
Chattanooga Royal Co., Chattanooga, Tenn.
Cirklaire Products Div., Folsom Co., Inc., Dallas, Tex.
Cobell Industries, Inc., Cleburne, Tex.
Coleman Co., Inc., Wichita, Kans.
Columbia Burner Co., Toledo, O.
Consolidated Industries, Inc., Lafayette, Ind.
Cox Mfg. Co., Ridgeville, Ind.
Crane Co., Plumbing, Heating, Air Conditioning Group, Johns-
town, Pa.
Custom-Aire Products Div., Pacific Industries, Inc., San Carlos,
Calif.
Dalzen Mfg. Co., St. Clair, Mich.
Day & Night Mfg. Co., La Puente, Calif.
Delco Appliance Div., General Motors Corp., Rochester, N. Y.
Domestic Mfg. Co., Seattle, Wash.
Dornback Furnace & Foundry Co., Eastlake, O.
Dowagiac Steel Furnace Co., Dowagiac, Mich.
Electric Furnace-Man, Inc., Emmaus, Pa.
Empire Stove Co., Belleville, Ill.
Engineering Industries Co., Ltd., Toronto, Ont., Canada
Fedders Corp., Maspeth, N. Y.
Floral City Heater Div., United States Air Conditioning Corp.,
Monroe, Mich.
Fraser & Johnston Co., San Francisco, Calif.
Front Rank Mfg. Co., Div. Gross Aire Mfg. Co., St. Louis, Mo.
Gaffers & Sattler, Los Angeles, Calif.
General Electric Co., Air Conditioning Dept., Tyler, Tex.
Glen-Aire Mfg. Co., Anaheim, Calif.
Green Colonial Inc., Des Moines, Iowa.
Grove Furnace, Inc., Garden Grove, Calif.
Hall-Neal Furnace Co., Indianapolis, Ind.
Hart Heat Div., Avery Farm Machinery Co., Peoria, Ill.
Harvey-Hill, Inc., St. Louis, Mo.
Heat Controller, Inc., Jackson, Mich.
Heating Specialties Inc., Baltimore, Md.
Heil-Quaker Corp., Nashville, Tenn.
Henry Furnace Co., Medina, Ohio.
Hess Co., Chicago, Ill.
Holly-General Co., Pasadena, Calif.
International Heater Co., Utica, N. Y.
International Oil Burner Co., St. Louis, Mo.
Iron Fireman Mfg. Co., Cleveland, Ohio.
Janitrol Heating and Air Conditioning Div., Midland-Ross
Corp., Columbus, O.
Jet-Heat, Inc., Englewood, N. J.
Johnson Furnace Co., The, Cleveland, O.
Kaustine Furnace & Tank Corp., Perry, N. Y.
Keith Furnace Co., Des Moines, Ia.
Kleer-Kleen Mfg. Co., Hayward, Calif.
Leeson Air Conditioning Corp., Detroit, Mich.
Lennox Industries Inc., Marshalltown, Iowa.
Lincoln Air Control Products, Inc., Swarthmore, Pa.
Lincoln Furnace Co., Inc., Hawthorne, N. J.
Lundt, Inc., Ernest C., Little Falls, N. J.
Majestic Co., Inc., Huntington, Ind.
Mayflower Air Conditioners, Inc., St. Paul, Minn.
McDonald Mfg. Co., A. Y., Dubuque, Ia.
Metro Metal Mfg. Co., Holt, Mich.

Metzger Machine & Engineering Co., Thermoflo Div., Milwau-
kee, Wis.

Meyer Furnace Co., Peoria, Ill.
Miami Products Div. of Crane Co., Miami, Okla.
Midwest Heater Co., Omaha, Nebr.
Monogram Industries, Inc., Quincy, Ill.
Montag Inc., Portland, Ore.
Morrison Steel Products, Inc., Buffalo, N. Y.
Mueller Climatrol, Milwaukee, Wis.
National Thermatic Corp., Houston, Tex.
Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
North Coast Mfg. Corp., Portland, Ore.
Norwalk Air Conditioning Corp., South Norwalk, Conn.
Olsen Mfg. Co., C. A., Elyria, Ohio.
Oneida Heater Co., Inc., Oneida, N. Y.
Patten Co., J. V., Sycamore, Ill.
Payne Co., The, La Puente, Calif.
Peerless Corp., Indianapolis, Ind.
Peerless Heater Co., Boyertown, Pa.
Penn Boiler Div., Pebbco Industries Inc., Lancaster, Pa.
Pennsylvania Furnace & Iron Co., Warren, Pa.
Perfection Div., Hupp Corp., Cleveland, Ohio.
Pioneer Co., Los Angeles, Calif.
Premier Furnace Co., Dowagiac, Mich.
Radiant Burners, Inc., Lombard, Ill.
Radiation Furnace Corp., Benton Harbor, Mich.
Ran Appliance Corp., D. P., Compton, Calif.
Reif-Rexoil, Inc., Buffalo, N. Y.
Rheem Mfg. Co., Chicago, Ill.
Richmond Plumbing Fixtures Div., Rheem Mfg. Co., Metuchen
N. J.
Roberts-Gordon Appliance Co., Buffalo, N. Y.
Round Oak Div., Peerless Corp., Dowagiac, Mich.
Rybolt Heater Co., Ashland, Ohio.
Schill Mfg. Co., Crestline, O.
Sequoia Mfg. Co., San Carlos, Calif.
Sheet Metal Mfg. Co., Youngstown, O.
Siegler Corp., Centralia, Ill.
Silent Automatic Products, Cleveland, O.
Smith Corp., A. O., Permaglas Div., Kankakee, Ill.
Smith, Inc., E. B., St. Petersburg, Fla.
Southwest Mfg. Co., Aurora, Mo.
Steel City Furnace Co., Springdale, Pa.
Stewart-Warner Corp., Heating and Air Conditioning Div.,
Lebanon, Ind.
Sure Comfort Furnace Co., Forest Park, Ill.
Switson Industries Ltd., Welland, Ont., Canada
Syncromatic Corp., Watertown, Wis.
Temco, Inc., Nashville, Tenn.
Temperature Appliance Mfg. Corp., Sebastopol, Calif.
Thatcher Furnace Co., Garwood, N. J.
Thermo-Products, Inc., North Judson, Ind.
Tjermund Mfg. Co., St. Paul, Minn.
Toridheet Div. Cleveland Steel Products Corp., Cleveland, Ohio
Trane Co., LaCrosse, Wis.
Tuck-Aire Furnace Co., San Francisco, Calif.
Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn
N. Y.
Victory Mfg. Co., Inc., Lancaster, N. Y.
Viking Mfg. Co., Cleveland, Ohio.
Waterair Co., Medford, Mass.
Waterman-Waterbury Co., Minneapolis, Minn.
Wayne Home Equipment Co., Inc., Fort Wayne, Ind.
Welbilt Air Conditioning and Heating Corp., Farmingdale,
N. J.
Wer-Cov Fabrication Co., Detroit, Mich.
Wesco Furnace Div., Northwest Foundry & Furnace Co., Port-
land, Ore.
Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va
Williams Oil-O-Matic Heating Co., Div. of National Union
Electric Corp., Columbus, O.
Williamson Co., The, Cincinnati, Ohio.
Wisconsin Burners Inc., Madison, Wis.
Wylie, W. O., Los Angeles, Calif.
XXth Century Heating & Ventilating Co., Akron, O.
York Div. of Borg-Warner Corp., York, Pa.
York-Shipley, Inc., York, Pa.
Zink Co., John, Tulsa, Okla.

FURNACES, FORCED WARM AIR, HIGHBOY, OIL FIRED, STEEL

For Basement or Utility Room Installations

Adams Furnace Corp., Paramount, Calif.
Air Conditioning Engineering Co., Cambridge, Mass.
Airtemp Div., Chrysler Corp., Dayton, Ohio.

American Furnace Co., St. Louis, Mo.
 American-Standard Air Conditioning Div., New York, N. Y.
 Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, Ohio.
 Auburn Burner Co., Edgerton, O.
 Auburn Foundry, Inc., Heating Div., Auburn, Ind.
 Autogas Co., Bellwood, Ill.
 Bard Mfg. Co., Bryan, Ohio.
 Benner-Nawman, Inc., Oakland, Calif.
 Besser Furnace and Air Conditioning Corp., Charlotte, N. C.
 Bonair Div., Peerless Products Co., Philadelphia, Pa.
 Bryant Mfg. Co., Indianapolis, Ind.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Campbell Heating Co., Des Moines, Ia.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Cary Mfg. Co., Waupaca, Wis.
 Century Engineering Corp., Cedar Rapids, Iowa.
 Cobell Industries, Inc., Cleburne, Tex.
 Coleman Co., Inc., Wichita, Kans.
 Columbia Burner Co., Toledo, O.
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Crown Home Equipment Co., Philadelphia, Pa.
 Dalzen Mfg. Co., St. Clair, Mich.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Domestic Mfg. Co., Seattle, Wash.
 Dornback Furnace & Foundry Co., Eastlake, O.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Ducane Heating Corp., Hawthorne, N. J.
 Electric Furnace-Man, Inc., Emmaus, Pa.
 Enico Products, Detroit, Mich.
 Fedders Corp., Maspeth, N. Y.
 Federal Heating and Cooling Corp., Charlotte, N. C.
 Floral City Heater Div., United States Air Conditioning Corp., Monroe, Mich.
 Front Rank Mfg. Co., Div. Gross Aire Mfg. Co., St. Louis, Mo.
 General Automatic Products Corp., Baltimore, Md.
 General Electric Co., Air Conditioning Dept., Tyler, Tex.
 Gilbert & Barker Mfg. Co., West Springfield, Mass.
 Green Colonial Inc., Des Moines, Iowa.
 Gross Furnace Mfg. Co., Inc., Salem, Va.
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Hart Heat Div., Avery Farm Machinery Co., Peoria, Ill.
 Heating Specialties Inc., Baltimore, Md.
 Heil-Quaker Corp., Nashville, Tenn.
 Henry Furnace Co., Medina, Ohio.
 Herco Oil Burner Corp., Lancaster, Pa.
 Hess Co., Chicago, Ill.
 Home Furnace Co., Holland, Mich.
 International Heater Co., Utica, N. Y.
 Iron Fireman Mfg. Co., Cleveland, Ohio.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Jet-Heat, Inc., Englewood, N. J.
 Johnson Co., S. T., Oakland, Calif.
 Johnson Furnace Co., The, Cleveland, O.
 Johnson Heater Corp., Chelsea, Mass.
 Kaustine Furnace & Tank Corp., Perry, N. Y.
 Keith Furnace Co., Des Moines, Ia.
 Kleer-Kleen Mfg. Co., Hayward, Calif.
 Kresno-Stamm Mfg. Co., Palisades Park, N. J.
 Laco Oil Burner Co., Inc., Griswold, Iowa.
 Leeson Air Conditioning Corp., Detroit, Mich.
 Lennox Industries Inc., Marshalltown, Iowa.
 Lincoln Air Control Products, Inc., Swarthmore, Pa.
 Lincoln Furnace Co., Inc., Hawthorne, N. J.
 Lundt, Inc., Ernest C., Little Falls, N. J.
 Majestic Co., Inc., Huntington, Ind.
 Manville Boiler Co., Inc., Hackettstown, N. J.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 McDonald Mfg. Co., A. Y., Dubuque, Ia.
 McPherson Furnace & Supply Co., Portland, Ore.
 Metro Metal Mfg. Co., Holt, Mich.
 Metzger Machine & Engineering Co., Thermoflo Div., Milwaukee, Wis.
 Meyer Furnace Co., Peoria, Ill.
 Miami Products Div. of Crane Co., Miami, Okla.
 Miller-Church Industries, Eaton Rapids, Mich.
 Monogram Industries, Inc., Quincy, Ill.
 Montag Inc., Portland, Ore.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Mortemp Corp., Seattle, Wash.
 Mueller Climatrol, Milwaukee, Wis.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 North Coast Mfg. Corp., Portland, Ore.
 Norwalk Air Conditioning Corp., South Norwalk, Conn.
 Olsen Mfg. Co., C. A., Elyria, Ohio.
 Oneida Heater Co., Inc., Oneida, N. Y.
 Patten Co., J. V., Sycamore, Ill.
 Peerless Corp., Indianapolis, Ind.
 Peerless Heater Co., Boyertown, Pa.
 Penn Boiler Div., Pebbco Industries Inc., Lancaster, Pa.
 Pennsylvania Furnace & Iron Co., Warren, Pa.
 Perfection Div., Hupp Corp., Cleveland, Ohio.
 Premier Furnace Co., Dowagiac, Mich.
 Quiet Automatic Burner Corp., Newark, N. J.
 Radiation Furnace Corp., Benton Harbor, Mich.
 Reif-Rexoil, Inc., Buffalo, N. Y.
 Republic Products Co., Philadelphia, Pa.
 Rheem Mfg. Co., Chicago, Ill.
 Richmond Plumbing Fixtures Div., Rheem Mfg. Co., Metuchen, N. J.
 Roberts-Gordon Appliance Co., Buffalo, N. Y.
 Roscoe Mfg. Co., Seattle, Wash.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, Ohio.
 Sandberg Mfg. Co., Portland, Ore.
 Schill Mfg. Co., Crestline, O.
 Sheet Metal Mfg. Co., Youngstown, O.
 Silent Automatic Products, Cleveland, O.
 Smith Corp., A. O., Permaglas Div., Kankakee, Ill.
 Standard Automatic Oil Burner Co., Newark, N. J.
 Steel City Furnace Co., Springdale, Pa.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Lebanon, Ind.
 Sure Comfort Furnace Co., Forest Park, Ill.
 Syncromatic Corp., Watertown, Wis.
 Thatcher Furnace Co., Garwood, N. J.
 Thermo-Products, Inc., North Judson, Ind.
 Tjernlund Mfg. Co., St. Paul, Minn.
 Toridheet Div., Cleveland Steel Products Corp., Cleveland, Ohio
 Trane Co., LaCrosse, Wis.
 Tuck-Aire Furnace Co., San Francisco, Calif.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 Victory Mfg. Co., Inc., Lancaster, N. Y.
 Viking Mfg. Corp., Cleveland, Ohio.
 Waterair Co., Medford, Mass.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Wayne Home Equipment Co., Inc., Fort Wayne, Ind.
 Weatherall Engineers, Inc., Providence, R. I.
 Wesco Furnace Div., Northwest Foundry & Furnace Co., Portland, Ore.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, Ohio.
 Wisconsin Burners Inc., Madison, Wis.
 York Div. of Borg-Warner Corp., York, Pa.
 York-Shipley, Inc., York, Pa.
 Zick Sheet Metal Works, Dearborn, Mich.

FURNACES, FORCED WARM AIR, HIGHBOY, GAS FIRED, STEEL

For Close Clearance (2 in. or less) Installations

Adams Furnace Co., Paramount, Calif.
 Airtemp Div., Chrysler Corp., Dayton, O.
 American Furnace Co., St. Louis, Mo.
 American-Standard Air Conditioning Div., New York, N. Y.
 Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, O.
 Bard Mfg. Co., Bryan, O.
 Bastian-Morley Co., Inc., La Porte, Ind.
 Bonair Div., Peerless Products Co., Philadelphia, Pa.
 Bryant Mfg. Co., Indianapolis, Ind.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Century Engineering Corp., Cedar Rapids, Ia.
 Coleman Co., Inc., Wichita, Kans.
 Custom-Aire Products Div., Pacific Industries, Inc., San Francisco, Calif.

Day & Night Mfg. Co., La Puente, Calif.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Dornback Furnace & Foundry Co., Eastlake, O.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Electric Furnace-Man, Inc., Emmaus, Pa.
 Empire Stove Co., Belleville, Ill.
 Floral City Heater Div., United States Air Conditioning Corp., Monroe, Mich.
 Fraser & Johnston Co., San Francisco, Calif.
 Gaffers & Sattler, Los Angeles, Calif.
 General Electric Co., Air Conditioning, Tyler, Tex.
 Grove Furnace, Inc., Garden Grove, Calif.
 Hayes Furnace & Mfg. & Supply Co., Los Angeles, Calif.
 Heil-Quaker Corp., Nashville, Tenn.
 Henry Furnace Co., Medina, O.
 International Heater Co., Utica, N. Y.
 Iron Fireman Mfg. Co., Cleveland, O.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Johnson Furnace Co., The, Cleveland, O.
 Kalamazoo Furnace and Appliance Mfg. Co., Kalamazoo, Mich.
 Kaustine Furnace & Tank Corp., Perry, N. Y.
 Leeson Air Conditioning Corp., Detroit, Mich.
 Lennox Industries Inc., Marshalltown, Ia.
 Little Burner Co., Inc., H. C. San Rafael, Calif.
 Majestic Co., Inc., Huntington, Ind.
 McDonald Mfg. Co., A. Y., Dubuque, Ia.
 Meyer Furnace Co., Peoria, Ill.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Mueller Climatrol, Milwaukee, Wis.
 Muncie Gear Works, Cordele, Ga.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Patten Co., J. V., Sycamore, Ill.
 Payne Co., The, La Puente, Calif.
 Peerless Corp., Indianapolis, Ind.
 Penn Boiler Div., Peabco Industries Inc., Lancaster, Pa.
 Perfection Div., Hupp Corp., Cleveland, O.
 Rheem Mfg. Co., Chicago, Ill.
 Richmond Plumbing Fixtures Div., Rheem Mfg. Co., Metuchen, N. J.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, O.
 Ryniker Steel Products Co., Billings, Mont.
 Sequoia Mfg. Co., San Carlos, Calif.
 Sheet Metal Mfg. Co., Youngstown, O.
 Silent Automatic Products, Cleveland, O.
 Smith Corp., A. O., Permaglas Div., Kankakee, Ill.
 Southern Heater Corp., Compton, Calif.
 Southwest Mfg. Co., Aurora, Mo.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Lebanon, Ind.
 Switson Industries Ltd., Welland, Ont., Canada
 Syncromatic Corp., Watertown, Wis.
 Temperature Appliance Mfg. Corp., Sebastopol, Calif.
 Thatcher Furnace Co., Garwood, N. J.
 Thermo-Products, Inc., North Judson, Ind.
 Toridheet Div., Cleveland Steel Products Corp., Cleveland, O.
 Tuck-Aire Furnace Co., San Francisco, Calif.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Wayne Home Equipment Co., Inc., Fort Wayne, Ind.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, O.
 York-Shipley, Inc., York, Pa.
 Zink Co., John, Tulsa, Okla.

FURNACES, FORCED WARM AIR, HIGHBOY, OIL FIRED, STEEL

For Close Clearance (2 in. or less) Installations

Adams Furnace Co., Paramount, Calif.
 Airtemp Div., Chrysler Corp., Dayton, O.
 American Furnace Co., St. Louis, Mo.
 American-Standard Air Conditioning Div., New York, N. Y.
 Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, O.
 Bard Mfg. Co., Bryan, O.
 Bonair Div., Peerless Products Co., Philadelphia, Pa.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Century Engineering Corp., Cedar Rapids, Ia.

Coleman Co., Inc., Wichita, Kans.
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Electric Furnace-Man, Inc., Emmaus, Pa.
 Federal Heating and Cooling Corp., Charlotte, N. C.
 Floral City Heater Div., United States Air Conditioning Corp., Monroe, Mich.
 General Automatic Products Corp., Baltimore, Md.
 General Electric Co., Air Conditioning Dept., Tyler, Tex.
 Heil-Quaker Corp., Nashville, Tenn.
 Henry Furnace Co., Medina, O.
 International Heater Co., Utica, N. Y.
 Iron Fireman Mfg. Co., Cleveland, O.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Johnson Furnace Co., The, Cleveland, O.
 Kalamazoo Furnace and Appliance Mfg. Co., Kalamazoo, Mich.
 Kaustine Furnace & Tank Corp., Perry, N. Y.
 Lennox Industries Inc., Marshalltown, Ia.
 Majestic Co., Inc., Huntington, Ind.
 McDonald Mfg. Co., A. Y., Dubuque, Ia.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Mortemp Corp., Seattle, Wash.
 Mueller Climatrol, Milwaukee, Wis.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Patten Co., J. V., Sycamore, Ill.
 Peerless Corp., Indianapolis, Ind.
 Perfection Div., Hupp Corp., Cleveland, O.
 Rheem Mfg. Co., Chicago, Ill.
 Roberts-Gordon Appliance Co., Buffalo, N. Y.
 Rybolt Heater Co., Ashland, O.
 Sandberg Mfg. Co., Portland, Ore.
 Sheet Metal Mfg. Co., Youngstown, O.
 Smith Corp., A. O., Permaglas Div., Kankakee, Ill.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Lebanon, Ind.
 Syncromatic Corp., Watertown, Wis.
 Thatcher Furnace Co., Garwood, N. J.
 Thermo-Products, Inc., North Judson, Ind.
 Toridheet Div., Cleveland Steel Products Corp., Cleveland, O.
 Tuck-Aire Furnace Co., San Francisco, Calif.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 Victory Mfg. Co., Inc., Lancaster, N. Y.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Wayne Home Equipment Co., Inc., Fort Wayne, Ind.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, O.
 York-Shipley, Inc., York, Pa.

FURNACES, FORCED WARM AIR, HORIZONTAL, GAS FIRED, STEEL

For Attic, Crawl Space or Suspended Installations

Agricola Furnace Co., Inc., Gadsden, Ala.
 Air Conditioning Engineering Co., Cambridge, Mass.
 Airtemp Div., Chrysler Corp., Dayton, O.
 Allan Engineering Co., Dallas, Texas.
 American Furnace Co., St. Louis, Mo.
 American-Standard Air Conditioning Div., New York, N. Y.
 Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, Ohio.
 Auburn Burner Co., Edgerton, O.
 Bard Mfg. Co., Bryan, O.
 Bonair Div., Peerless Products Co., Philadelphia, Pa.
 Bryant Mfg. Co., Indianapolis, Ind.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Central States Mfg. Co., Inc., Arkansas City, Kans.
 Century Engineering Corp., Cedar Rapids, Ia.
 Chattanooga Royal Co., Chattanooga, Tenn.
 Chicago Steel Furnace Co., Elk Grove, Ill.
 Cobell Industries, Inc., Cleburne, Tex.
 Coleman Co., Inc., Wichita, Kans.
 Columbia Specialty Co., Inc., Chevy Chase, Md.
 Consolidated Industries, Inc., Lafayette, Ind.
 Cox Mfg. Co., Ridgeville, Ind.

Custom-Air Products Div., Pacific Industries, Inc., San Francisco, Calif.
 Day & Night Mfg. Co., La Puente, Calif.
 Dearborn Stove Co., Dallas, Tex.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Domestic Mfg. Co., Seattle, Wash.
 Dornback Furnace & Foundry Co., Eastlake, O.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Draco Co., Charlotte, N. C.
 Electric Furnace-Man, Inc., Emmaus, Pa.
 Empire Stove Co., Belleville, Ill.
 Engineering Industries Co., Ltd., Toronto, Ont., Canada
 Felter Co., John, Houston, Tex.
 Floral City Heater Div., United States Air Conditioning Corp., Monroe, Mich.
 Fraser & Johnston Co., San Francisco, Calif.
 Gaffers & Sattler, Los Angeles, Calif.
 General Automatic Products Corp., Baltimore, Md.
 Great National Air Conditioning Corp., Oklahoma City, Okla.
 Green Colonial Inc., Des Moines, Ia.
 Harvey-Hill, Inc., St. Louis, Mo.
 Hastings Air Cond. Co., Inc., Hastings, Nebr.
 Hayes Furnace & Mfg. & Supply Co., Los Angeles, Calif.
 Heat Controller, Inc., Jackson, Mich.
 Heil-Quaker Corp., Nashville, Tenn.
 Henry Furnace Co., Medina, Ohio.
 Hess Co., The, Chicago, Ill.
 Inland Heater Corp., St. Paul, Minn.
 International Heater Co., Utica, N. Y.
 Iron Fireman Mfg. Co., Cleveland, O.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Jet-Heat, Inc., Englewood, N. J.
 Johnson Furnace Co., The, Cleveland, O.
 Johnson Heater Corp., Chelsea, Mass.
 Kleer-Kleen Mfg. Co., Hayward, Calif.
 Lennox Industries Inc., Marshalltown, Iowa.
 Lundt, Inc., Ernest C., Little Falls, N. J.
 Majestic Co., Inc., Huntington, Ind.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 McDonald Mfg. Co., A. Y., Dubuque, Ia.
 Metzger Furnace & Engineering Co., Thermoflo Div., Milwaukee, Wis.
 Meyer Furnace Company, Peoria, Ill.
 Miami Products Div. of Crane Co., Miami, Okla.
 Midwest Heater Co., Omaha, Nebr.
 Monogram Industries, Inc., Quincy, Ill.
 Montag Inc., Portland, Ore.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Mueller Climatrol, Milwaukee, Wis.
 Muncie Gear Works, Cordele, Ga.
 National Heater Co., Inc., St. Paul, Minn.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 Norman Products Co., Columbus, Ohio.
 North Coast Mfg. Corp., Portland, Ore.
 Norwalk Air Conditioning Corp., South Norwalk, Conn.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Oneida Heater Co., Inc., Oneida, N. Y.
 OverHead Heaters, Inc., Detroit, Mich.
 Patten Co., J. V., Sycamore, Ill.
 Payne Co., The, La Puente, Calif.
 Peerless Heater Co., Boyertown, Pa.
 Perfection Div., Hupp Corp., Cleveland, O.
 Premier Furnace Co., Dowagiac, Mich.
 Reif-Rexoil, Inc., Buffalo, N. Y.
 Reznor Mfg. Co., Mercer, Pa.
 Rheem Mfg. Co., Chicago, Ill.
 Richmond Plumbing Fixtures Div., Rheem Mfg. Co., Metuchen, N. J.
 Roberts-Gordon Appliance Co., Buffalo, N. Y.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, Ohio.
 Sequoia Mfg. Co., San Carlos, Calif.
 Sheet Metal Mfg. Co., Youngstown, O.
 Smith Corp., A. O., Permaglas Div., Kankakee, Ill.
 Southwest Mfg. Co., Aurora, Mo.
 Steel City Furnace Corp., Springdale, Pa.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Lebanon, Ind.
 Syncromatic Corp., Watertown, Wis.
 Temco, Inc., Nashville, Tenn.
 Thatcher Furnace Co., Garwood, N. J.
 Thermobloc Div., Prat-Daniel Corp., South Norwalk, Conn.
 Thermo-Products, Inc., North Judson, Ind.
 Tjernlund Mfg. Co., St. Paul, Minn.

Toridheat Div., Cleveland Steel Products Corp., Cleveland, O.
 Trane Co., La Crosse, Wis.
 Tuck-Aire Furnace Co., San Francisco, Calif.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 Viking Mfg. Corp., Cleveland, O.
 Wayne Home Equipment Co., Inc., Fort Wayne, Ind.
 Welbilt Air Conditioning and Heating Corp., Farmingdale, N. J.
 Wesco Furnace Div., Northwest Foundry & Furnace Co., Portland, Ore.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, Ohio.
 Wisconsin Burners Inc., Madison, Wis.
 York Div. of Borg-Warner Corp., York, Pa.
 York-Shipley, Inc., York, Pa.
 Zink Co., John, Tulsa, Okla.

FURNACES, FORCED WARM AIR, HORIZONTAL, OIL FIRED, STEEL

For Attic, Crawl Space or Suspended Installations

Air Conditioning Engineering Co., Cambridge, Mass.
 Airtemp Div., Chrysler Corp., Dayton, O.
 American Furnace Co., St. Louis, Mo.
 American-Standard Air Conditioning Div., New York, N. Y.
 Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, O.
 Auburn Burner Co., Edgerton, O.
 Auburn Foundry, Inc., Heating Div., Auburn, Ind.
 Bard Mfg. Co., Bryan, O.
 Besser Furnace and Air Conditioning Corp., Charlotte, N. C.
 Bonair Div., Peerless Products Co., Philadelphia, Pa.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Century Engineering Corp., Cedar Rapids, Ia.
 Chicago Steel Furnace Co., Elk Grove, Ill.
 Columbia Burner Co., Toledo, O.
 Columbia Specialty Co., Inc., Chevy Chase, Md.
 Cox Mfg. Co., Ridgeville, Ind.
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Domestic Mfg. Co., Seattle, Wash.
 Dornback Furnace & Foundry Co., Eastlake, O.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Electric Furnace-Man, Inc., Emmaus, Pa.
 Federal Heating and Cooling Corp., Charlotte, N. C.
 Floral City Heater Div., United States Air Conditioning Corp., Monroe, Mich.
 Front Rank Mfg. Co., Div. Gross Aire Mfg. Co., St. Louis, Mo.
 General Automatic Products Corp., Baltimore, Md.
 General Electric Co., Air Conditioning Dept., Tyler, Tex.
 Gilbert & Barker Mfg. Co., West Springfield, Mass.
 Green Colonial Inc., Des Moines, Ia.
 Gross Furnace Mfg. Co., Inc., Salem, Va.
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Heil-Quaker Corp., Nashville, Tenn.
 Henry Furnace Co., Medina, O.
 Herco Oil Burner Corp., Lancaster, Pa.
 Hess Co., The, Chicago, Ill.
 Inland Heater Corp., St. Paul, Minn.
 International Heater Co., Utica, N. Y.
 Iron Fireman Mfg. Co., Cleveland, O.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Jet-Heat, Inc., Englewood, N. J.
 Johnson Furnace Co., The, Cleveland, O.
 Johnson Heater Corp., Chelsea, Mass.
 Kalamazoo Furnace and Appliance Mfg. Co., Kalamazoo, Mich.
 Kaustine Furnace & Tank Corp., Perry, N. Y.
 Kleer-Kleen Mfg. Co., Hayward, Calif.
 Kresno-Stamm Mfg. Co., Palisades Park, N. J.
 Lennox Industries Inc., Marshalltown, Ia.
 Lincoln Air Control Products, Inc., Swarthmore, Pa.
 Lincoln Furnace Co., Inc., Hawthorne, N. J.
 Lundt, Inc., Ernest C., Little Falls, N. J.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 McDonald Mfg. Co., A. Y., Dubuque, Ia.
 McPherson Furnace & Supply Co., Portland, Ore.
 Miami Products Div. of Crane Co., Miami, Okla.

Monogram Industries, Inc., Quincy, Ill.
 Montag Inc., Portland, Ore.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Mortemp Corp., Seattle, Wash.
 Mueller Climatrol, Milwaukee, Wis.
 National Heater Co., Inc., St. Paul, Minn.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 North Coast Mfg. Corp., Portland, Ore.
 Norwalk Air Conditioning Corp., South Norwalk, Conn.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Oneida Heater Co., Inc., Oneida, N. Y.
 OverHead Heaters, Inc., Detroit, Mich.
 Patten Co., J. V., Sycamore, Ill.
 Peerless Heater Co., Boyertown, Pa.
 Perfection Div. Hupp Corp., Cleveland, O.
 Quiet Automatic Burner Corp., Newark, N. J.
 Reif-Rexoil, Inc., Buffalo, N. Y.
 Richmond Plumbing Fixtures Div., Rheem Mfg. Co., Metuchen, N. J.
 Rybolt Heater Co., Ashland, O.
 Sandberg Mfg. Co., Portland, Ore.
 Sheet Metal Mfg. Co., Youngstown, O.
 Silent Automatic Products, Cleveland, O.
 Smith Corp., A. O., Permaglas Div., Kankakee, Ill.
 Steel City Furnace Corp., Springdale, Pa.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Lebanon, Ind.
 Synchromatic Corp., Watertown, Wis.
 Thatcher Furnace Co., Garwood, N. J.
 Thermobloc Div., Prat-Daniel Corp., South Norwalk, Conn.
 Thermo-Products, Inc., North Judson, Ind.
 Tjernlund Mfg. Co., St. Paul, Minn.
 Toridheet Div., Cleveland Steel Products Corp., Cleveland, O.
 Trane Co., La Crosse, Wis.
 Viking Mfg. Corp., Cleveland, O.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Wayne Home Equipment Co., Inc., Ft. Wayne, Ind.
 Weatherall Engineers, Inc., Providence, R. I.
 Wesco Furnace Div., Northwest Foundry & Furnace Co., Portland, Ore.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, O.
 Wisconsin Burners Inc., Madison, Wis.
 York Div. of Borg-Warner Corp., York, Pa.
 York-ShIPLEY, Inc., York, Pa.

FURNACES, FORCED WARM AIR, LOWBOY, COAL FIRED, CAST IRON

For Basement Installations

American Foundry & Furnace Co., Bloomington, Ill.
 Green Colonial Inc., Des Moines, Iowa.
 Majestic Co., Inc., Huntington, Ind.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 Premier Furnace Co., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, O.
 Skinner Heating & Ventilating Co. Div. Young Sales Corp., St. Louis, Mo.
 Spear Stove & Heater Co., James, Philadelphia, Pa.
 XXth Century Heating & Ventilating Co., Akron, Ohio

FURNACES, FORCED WARM AIR, LOWBOY, COAL FIRED, STEEL

For Basement Installations

American Furnace Co., St. Louis, Mo.
 American-Standard Air Conditioning Div., New York, N. Y.
 Anchor Div., Stratton & Terstege Co., Inc., New Albany, Ind.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, Ohio.
 Automatic Solid Fuels Equipment Co., Indianapolis, Ind.
 Bard Mfg. Co., Bryan, Ohio.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Campbell Co., E. K., Kansas City, Mo.
 Campbell Heating Co., Des Moines, Iowa.
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Daniels Mfg. Co., Inc., Sam, Hardwick, Vt.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Electric Furnace-Man, Inc., Emmaus, Pa.

Floral City Heater Div., United States Air Conditioning Corp., Monroe, Mich.
 Front Rank Mfg. Co., Div. Gross Aire Mfg. Co., St. Louis, Mo.
 Furbio Co., Hermansville, Mich.
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Henry Furnace Co., Medina, Ohio.
 International Heater Co., Utica, N. Y.
 Keith Furnace Co., Des Moines, Iowa.
 Lennox Industries Inc., Marshalltown, Iowa.
 Majestic Co., Inc., Huntington, Ind.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 McDonald Mfg. Co., A. Y., Dubuque, Ia.
 Meyer Furnace Co., Peoria, Ill.
 National Heater Co., Inc., St. Paul, Minn.
 Olsen Mfg. Co., C. A., Elyria, Ohio.
 Oneida Heater Co., Inc., Oneida, N. Y.
 Peerless Corp., Indianapolis, Ind.
 Premier Furnace Co., Dowagiac, Mich.
 Premium Coal & Oil Co., Cincinnati, Ohio.
 Rosebraugh Co., W. W., Salem, Ore.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, Ohio.
 Sandberg Mfg. Co., Portland, Ore.
 Schill Mfg. Co., Crestline, Ohio.
 Synchromatic Corp., Watertown, Wis.
 Thatcher Furnace Co., Garwood, N. J.
 Toridheet Div., Cleveland Steel Products Corp., Cleveland, Ohio.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 Viking Mfg. Corp., Cleveland, Ohio.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Wayne Home Equipment Co., Inc., Fort Wayne, Ind.
 Wesco Furnace Div., Northwest Foundry & Furnace Co., Portland, Ore.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, Ohio.

FURNACES, FORCED WARM AIR, LOWBOY, GAS FIRED, CAST IRON

For Basement Installations

American Foundry & Furnace Co., Bloomington, Ill.
 Corroaire Heater Corp., Cleveland, O.
 Dornback Furnace & Foundry Co., Eastlake, O.
 Green Colonial Inc., Des Moines, Iowa.
 Hart Heat Div., Avery Farm Machinery Co., Peoria, Ill.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 Pennsylvania Furnace & Iron Co., Warren, Pa.
 Rybolt Heater Co., Ashland, Ohio.
 Sandberg Mfg. Co., Portland, Ore.
 Sheet Metal Mfg. Co., Youngstown, O.
 Thatcher Furnace Co., Garwood, N. J.
 Victory Mfg. Co., Inc., Lancaster, N. Y.
 XXth Century Heating & Ventilating Co., Akron, Ohio

FURNACES, FORCED WARM AIR, LOWBOY, GAS FIRED, STEEL

For Basement Installations

Airtemp Div., Chrysler Corp., Dayton, Ohio.
 Aladdin Heating Corp., San Leandro, Calif.
 Allan Engineering Co., Dallas, Texas.
 American Furnace Co., St. Louis, Mo.
 American-Standard Air Conditioning Div., New York, N. Y.
 Anchor Div., Stratton & Terstege Co., Inc., New Albany, Ind.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, Ohio.
 Auburn Burner Co., Auburn, Ind.
 Auburn Foundry, Inc., Heating Div., Auburn, Ind.
 Autogas Co., Bellwood, Ill.
 Bard Mfg. Co., Bryan, Ohio.
 Bonair Div., Peerless Products Co., Philadelphia, Pa.
 Bryant Mfg. Co., Indianapolis, Ind.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Campbell Co., E. K., Kansas City, Mo.
 Campbell Heating Co., Des Moines, Iowa.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Central States Mfg. Co., Inc., Arkansas City, Kans.
 Century Engineering Corp., Cedar Rapids, Iowa.
 Chicago Steel Furnace Co., Elk Grove, Ill.
 Cirklaire Products Div., Folsom Co., Inc., Dallas, Tex.

Coleman Co., Inc., Wichita, Kans.
 Columbia Burner Co., Toledo, O.
 Columbia Specialty Co., Inc., Chevy Chase, Md.
 Consolidated Industries, Inc., Lafayette, Ind.
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Dalzen Mfg. Co., St. Clair, Mich.
 Day & Night Mfg. Co., La Puente, Calif.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Dornback Furnace & Foundry Co., Eastlake, Ohio.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Dualtron Co., Pittsburgh, Pa.
 Electric Furnace-Man, Inc., Emmaus, Pa.
 Empire Stove Co., Belleville, Ill.
 Engineering Industries Co., Ltd., Toronto, Ont., Canada
 Floral City Heater Div., United States Air Conditioning Corp., Monroe, Mich.
 Fluid Heat Div. Anchor Post Products, Inc., Baltimore, Md.
 Fraser and Johnston Co., San Francisco, Calif.
 Front Rank Mfg. Co., Div. Gross Aire Mfg. Co., St. Louis, Mo.
 Green Colonial Inc., Des Moines, Iowa.
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Hart Heat Div., Avery Farm Machinery Co., Peoria, Ill.
 Harvey-Hill, Inc., St. Louis, Mo.
 Heil-Quaker Corp., Nashville, Tenn.
 Henry Furnace Co., Medina, Ohio.
 Hess Co., Chicago, Ill.
 International Heater Co., Utica, N.Y.
 Iron Fireman Mfg. Co., Cleveland, Ohio.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Jet-Heat, Inc., Englewood, N. J.
 Johnson Furnace Co., The, Cleveland, O.
 Johnson Heater Corp., Chelsea, Mass.
 Kalamazoo Furnace and Appliance Mfg. Co., Kalamazoo, Mich.
 Kaustine Furnace & Tank Corp., Perry, N. Y.
 Keith Furnace Co., Des Moines, Iowa.
 Leeson Air Conditioning Corp., Detroit, Mich.
 Lennox Industries Inc., Marshalltown, Iowa.
 Lincoln Air Control Products, Inc. Swarthmore, Pa.
 Lincoln Furnace Co., Inc., Hawthorne, N. J.
 Lundt, Inc., Ernest C., Little Falls, N. J.
 Majestic Co., Inc., Huntington, Ind.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 McDonald Mfg. Co., A. Y., Dubuque, Ia.
 Metro Metal Mfg. Co., Holt, Mich.
 Metzger Machine & Engineering Co., Thermoflo Div., Milwaukee, Wis.
 Meyer Furnace Co., Peoria, Ill.
 Miami Products Div. of Crane Co., Miami, Okla.
 Midwest Heater Co., Omaha, Nebr.
 Monogram Industries, Inc., Quincy, Ill.
 Montag Inc., Portland, Ore.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Mortemp Furnace Div., Witte-Toledo Co., Toledo, O.
 Mueller Climatrol, Milwaukee, Wis.
 National Heater Co., Inc., St. Paul, Minn.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 North Coast Mfg. Corp., Portland, Ore.
 Norwalk Air Conditioning Corp., South Norwalk, Conn.
 Olsen Mfg. Co., C. A., Elyria, Ohio.
 Oneida Heater Co., Inc., Oneida, N. Y.
 Patten Co., J. V., Sycamore, Ill.
 Payne Co., The, La Puente, Calif.
 Peerless Corp., Indianapolis, Ind.
 Peerless Heater Co., Boyertown, Pa.
 Penn Boiler Div., Pebbco Industries Inc., Lancaster, Pa.
 Pennsylvania Furnace & Iron Co., Warren, Pa.
 Perfection Div., Hupp Corp., Cleveland, Ohio.
 Premier Furnace Co., Dowagiac, Mich.
 Radiation Furnace Corp., Benton Harbor, Mich.
 Rapid Heat Corp., Detroit, Mich.
 Ray Oil Burner Co., San Francisco, Calif.
 Reif-Rexoil, Inc., Buffalo, N. Y.
 Rheem Mfg. Co., Chicago, Ill.
 Richmond Plumbing Fixtures Div., Rheem Mfg. Co., Metuchen N. J.
 Roberts-Gordon Appliance Corp., Buffalo, N. Y.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, Ohio.
 Ryniker Steel Products Co., Billings, Mont.
 Schill Mfg. Co., Crestline, Ohio.
 Sheet Metal Mfg. Co., Youngstown, O.
 Silent Automatic Products, Cleveland, O.
 Smith Corp., A. O., Permaglas Div., Kankakee, Ill.

Southwest Mfg. Co., Aurora, Mo.
 Steel City Furnace Co., Springdale, Pa.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Lebanon, Ind.
 Sure Comfort Furnace Co., Forest Park, Ill.
 Switson Industries Ltd., Welland, Ont., Canada
 Syncromatic Corp., Watertown, Wis.
 Temco, Inc., Nashville, Tenn.
 Thatcher Furnace Co., Garwood, N. J.
 Thermo-Products, Inc., North Judson, Ind.
 Tjernlund Mfg. Co., St. Paul, Minn.
 Toridheat Div., Cleveland Steel Products Corp., Cleveland, Ohio.
 Tuck-Aire Furnace Co., San Francisco, Calif.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 Utility Appliance Corp., Los Angeles, Calif.
 Victory Mfg. Co., Inc., Lancaster, N. Y.
 Viking Mfg. Corp., Cleveland, Ohio.
 Waterair Co., Medford, Mass.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Wayne Home Equipment Co., Fort Wayne, Ind.
 Welbilt Air Conditioning and Heating Corp., Farmingdale, N. J.
 Wesco Furnace Div., Northwest Foundry & Furnace Co., Portland, Ore.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, Ohio.
 Wisconsin Burners Inc., Madison, Wis.
 York Div. of Borg-Warner Corp., York, Pa.
 York-Shipley, Inc., York, Pa.
 Zick Sheet Metal Works, Dearborn, Mich.
 Zink Co., John, Tulsa, Okla.

FURNACES, FORCED WARM AIR, LOWBOY, OIL FIRED, CAST IRON

For Basement Installations

American Foundry & Furnace Co., Bloomington, Ill.
 Columbia Burner Co., Toledo, O.
 Hart Heat Div., Avery Farm Machinery Co., Peoria, Ill.
 Livingston, Inc., Marshall, Mich.
 Sandberg Mfg. Co., Portland, Ore.
 Sheet Metal Mfg. Co., Youngstown, O.
 XXth Century Heating & Ventilating Co., Akron, Ohio.

FURNACES, FORCED WARM AIR, LOWBOY, OIL FIRED, STEEL

For Basement Installations

Air Conditioning Engineering Co., Cambridge, Mass.
 Airtemp Div., Chrysler Corp., Dayton, Ohio.
 American Furnace Co., St. Louis, Mo.
 American-Standard Air Conditioning Div., New York, N. Y.
 Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, Ohio.
 Auburn Burner Co., Auburn, Ind.
 Auburn Foundry Inc., Heating Div., Auburn, Ind.
 Autogas Co., Bellwood, Ill.
 Bard Mfg. Co., Bryan, Ohio.
 Besser Furnace and Air Conditioning Corp., Charlotte, N. C.
 Bonair Div., Peerless Products Co., Philadelphia, Pa.
 Bryant Mfg. Co., Indianapolis, Ind.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Campbell Co., E. K., Kansas City, Mo.
 Campbell Heating Co., Des Moines, Iowa.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Cary Mfg. Co., Waupaca, Wis.
 Century Engineering Corp., Cedar Rapids, Iowa.
 Chicago Steel Furnace Co., Elk Grove, Ill.
 Coleman Co., Inc., Wichita, Kans.
 Columbia Specialty Co., Inc., Chevy Chase, Md.
 Cox Mfg. Co., Ridgeville, Ind.
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Crown Home Equipment Co., Philadelphia, Pa.
 Dalzen Mfg. Co., St. Clair, Mich.

Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Domestic Mfg. Co., Seattle, Wash.
 Dornback Furnace & Foundry Co., Eastlake, O.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Dualtron Co., Pittsburgh, Pa. (Equipped with electrostatic filter)
 Ducane Heating Corp., Hawthorne, N. J.
 Electric Furnace-Man, Inc., Emmaus, Pa.
 Electrol Burner Mfg. Co., Inc., Rutherford, N. J.
 Engineering Industries Co., Ltd., Toronto, Ont., Canada.
 Enico Products, Detroit, Mich.
 Federal Heating and Cooling Corp., Charlotte, N. C.
 Floral City Heater Div., United States Air Conditioning Corp.,
 Monroe, Mich.
 Fluid Heat Div., Anchor Post Products, Inc., Baltimore, Md.
 Front Rank Mfg. Co., Div. Gross Aire Mfg. Co., St. Louis, Mo.
 Furblo Co., Hermanville, Mich.
 General Automatic Products Corp., Baltimore, Md.
 General Electric Co., Air Conditioning Dept., Tyler, Tex.
 Gilbert & Barker Mfg. Co., West Springfield, Mass.
 Green Colonial Inc., Des Moines, Iowa.
 Gross Furnace Mfg. Co., Inc., Salem, Va.
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Hart Heat Div., Avery Farm Machinery Co., Peoria, Ill.
 Heating Specialties Inc., Baltimore, Md.
 Heil-Quaker Corp., Nashville, Tenn.
 Henry Furnace Co., Medina, Ohio.
 Hercio Oil Burner Corp., Lancaster, Pa.
 Hess Co., Chicago, Ill.
 Home Furnace Co., Holland, Mich.
 International Heater Co., Utica, N. Y.
 Iron Fireman Mfg. Co., Cleveland, Ohio.
 Janitrol Heating and Air Conditioning Div., Midland-Ross
 Corp., Columbus, O.
 Jet-Heat, Inc., Englewood, N. J.
 Johnson Co., S. T., Oakland, Calif., and Philadelphia, Pa.
 Johnson Furnace Co., The, Cleveland, O.
 Johnson Heater Corp., Chelsea, Mass.
 Jungers Stove & Range Co., Grafton, Wis.
 Kalamazoo Furnace and Appliance Mfg. Co., Kalamazoo, Mich.
 Kaustine Furnace & Tank Corp., Perry, N. Y.
 Keith Furnace Co., Des Moines, Iowa.
 Kleer-Kleen Mfg. Co., Hayward, Calif.
 Kresno-Stamm Mfg. Co., Palisades Park, N. J.
 Leeson Air Conditioning Corp., Detroit, Mich.
 Lennox Industries Inc., Marshalltown, Iowa.
 Lincoln Air Control Products, Inc., Swarthmore, Pa.
 Lincoln Furnace Co., Inc., Hawthorne, N. J.
 Lundt, Inc., Ernest C., Little Falls, N. J.
 Luty Furnace Mfg. Co., Detroit, Mich.
 Majestic Co., Inc., Huntington, Ind.
 Manville Boiler Co., Inc., Hackettstown, N. J.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 McDonald Mfg. Co., A. Y., Dubuque, Ia.
 McPherson Furnace & Supply Co., Portland, Ore.
 Metro Metal Mfg. Co., Holt, Mich.
 Metzger Machine & Engineering Co., Thermoflo Div., Milwaukee,
 Wis.
 Meyer Furnace Co., Peoria, Ill.
 Miami Products Div. of Crane Co., Miami, Okla.
 Miller-Church Industries, Eaton Rapids, Mich.
 Monogram Industries, Inc., Quincy, Ill.
 Montag Inc., Portland, Ore.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Mortemp Corp., Seattle, Wash.
 Mueller Climatrol, Milwaukee, Wis.
 National Heater Co., Inc., St. Paul, Minn.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 North Coast Mfg. Corp., Portland, Ore.
 Norwalk Air Conditioning Corp., South Norwalk, Conn.
 Olsen Mfg. Co., C. A., Elyria, Ohio.
 Oneida Heater Co., Inc., Oneida, N. Y.
 Patten Co., J. V., Sycamore, Ill.
 Peerless Corp., Indianapolis, Ind.
 Peerless Heater Co., Boyertown, Pa.
 Penn Boiler Div., Peabco Industries Inc., Lancaster, Pa.
 Perfection Div., Hupp Corp., Cleveland, Ohio.
 Premier Furnace Co., Dowagiac, Mich.
 Premium Coal & Oil Co., Cincinnati, Ohio.
 Queen Products Div., King-Seeley Corp., Albert Lea, Minn.
 Quick Furnace & Supply Co., Des Moines, Iowa.
 Quiet Automatic Burner Corp., Newark, N. J.
 Radiation Furnace Corp., Benton Harbor, Mich.
 Ray Oil Burner Co., San Francisco, Calif.
 Reif-Rexoil, Inc., Buffalo, N. Y.
 Republic Products Co., Philadelphia, Pa.
 Rheem Mfg. Co., Chicago, Ill.

Richmond Plumbing Fixtures Div., Rheem Mfg. Co., Metuchen,
 N. J.
 Roberts-Gordon Appliance Co., Buffalo, N. Y.
 Rosebraugh Co., W. W., Salem, Ore.
 Roscoe Mfg. Co., Seattle, Wash.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, Ohio.
 Sandberg Mfg. Co., Portland, Ore.
 Schill Mfg. Co., Crestline, Ohio.
 Sheet Metal Mfg. Co., Youngstown, O.
 Silent Sioux Corp., Orange City, Iowa.
 Smith Corp., A. O., Permaglas Div., Kankakee, Ill.
 Standard Automatic Oil Burner Co., Newark, N. J.
 Steel City Furnace Co., Springdale, Pa.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Leb-
 anon, Ind.
 Sure Comfort Furnace Co., Forest Park, Ill.
 Syncromatic Corp., Watertown, Wis.
 Thatcher Furnace Co., Garwood, N. J.
 Thermo-Products Inc., North Judson, Ind.
 Tiernlund Mfg. Co., St. Paul, Minn.
 Toridheat Div., Cleveland Steel Products Corp., Cleveland, Ohio
 Tru-Heat Co., Trenton, N. J.
 Tuck-Aire Furnace Co., San Francisco, Calif.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn,
 N. Y.
 Victory Mfg. Co., Inc., Lancaster, N. Y.
 Viking Mfg. Corp., Cleveland, Ohio.
 Waterair Co., Medford, Mass.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Wayne Home Equipment Co., Inc., Fort Wayne, Ind.
 Weatherall Engineers, Inc., Providence, R. I.
 Wesco Furnace Div., Northwest Foundry & Furnace Co., Port-
 land, Ore.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Williams Oil-O-Matic Heating Co., Div. of National Union
 Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, Ohio.
 Wisconsin Burners Inc., Madison, Wis.
 York Div. of Borg-Warner Corp., York, Pa.
 York-Shipley, Inc., York, Pa.
 Zick Sheet Metal Works, Dearborn, Mich.

FURNACES, FORCED WARM AIR, WALL, ELECTRIC

Electrend Products Corp., Subsidiary of St. Joe Machines, Inc.,
 St. Joseph, Mich.
 Kritzer Products Div. of Peerless of America, Inc., Chicago, Ill.

FURNACES, FORCED WARM AIR, WALL, GAS FIRED

Chattanooga Royal Co., Chattanooga, Tenn.
 Consumer Products, Motor Wheel Corp., Lansing, Mich.
 Corosaire Heater Corp., Cleveland, O.
 Day & Night Mfg. Co., La Puente, Calif.
 Empire Stove Co., Belleville, Ill.
 Holly-General Co., Pasadena, Calif.
 Monogram Industries, Inc., Quincy, Ill.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Mueller Climatrol, Milwaukee, Wis.
 Ohio Foundry & Mfg. Co., Steubenville, O.
 Payne Co., The, La Puente, Calif.
 Perfection Div., Hupp Corp., Cleveland, O.
 Samuel Stamping & Enameling Co., Chattanooga, Tenn.
 Southern Heater Corp., Compton, Calif.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Leb-
 anon, Ind.
 Williams Furnace Co., Buena Park, Calif.

FURNACES, FORCED WARM AIR, WALL, OIL FIRED

Consumer Products, Motor Wheel Corp., Lansing, Mich.
 Heil-Quaker Corp., Nashville, Tenn.
 International Oil Burner Co., St. Louis, Mo.
 Kresky Mfg. Co., Inc., Petaluma, Calif.
 Monogram Industries, Inc., Quincy, Ill.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Perfection Div., Hupp Corp., Cleveland, O.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Leb-
 anon, Ind.

**FURNACES, FORCED WARM AIR, WITH DOMESTIC
HOT WATER SUPPLY, GAS FIRED, STEEL**

Waterair Co., Medford, Mass.

**FURNACES, FORCED WARM AIR, WITH DOMESTIC
HOT WATER SUPPLY, OIL FIRED, STEEL**

Waltham Oil Burner Co., Inc., East Boston, Mass.
Waterair Co., Medford, Mass.

**FURNACES, FORCED WARM AIR, 400,000 BTUH
AND UP CAPACITY (DIRECT FIRED, FOR LOCATION
IN SPACE TO BE HEATED AND WITHOUT DUCT
DISTRIBUTION)**

See Heaters, Air, Direct Fired

**FURNACES, FORCED WARM AIR, 400,000 BTUH
AND UP CAPACITY, COAL FIRED, CAST IRON**

(EXCLUSIVELY FOR DUCT DISTRIBUTION OF AIR. FOR SPACE
HEATING EXCLUSIVELY SEE HEATERS, AIR, DIRECT FIRED)

American Foundry & Furnace Co., Bloomington, Ill.
MaGirl Foundry & Furnace Co., Bloomington, Ill.

**FURNACES, FORCED WARM AIR, 400,000 BTUH
AND UP CAPACITY, COAL FIRED, STEEL**

(EXCLUSIVELY FOR DUCT DISTRIBUTION OF AIR. FOR SPACE
HEATING EXCLUSIVELY SEE HEATERS, AIR, DIRECT FIRED)

Air Conditioning Engineering Co., Cambridge, Mass.
Armstrong Furnace Co., Div. of National Union Electric Corp.,
Columbus, O.
Campbell Heating Co., Des Moines, Ia.
Daniels Mfg. Co., Sam, Hardwick, Vt.
Domestic Mfg. Co., Seattle, Wash.
Floral City Heater Div., United States Air Conditioning Corp.,
Monroe, Mich.
Lennox Industries Inc., Marshalltown, Ia.
Mammoth Industries Inc., Minneapolis, Minn.
Meyer Furnace Co., Peoria, Ill.
National Heater Co., Inc., St. Paul, Minn.
Peerless Corp., Indianapolis, Ind.
Round Oak Div., Peerless Corp., Dowagiac, Mich.
Sandberg Mfg. Co., Portland, Ore.
Syncromatic Corp., Watertown, Wis.
Waterman-Waterbury Co., Minneapolis, Minn.
Wesco Furnace Div., Northwest Foundry & Furnace Co., Port-
land, Ore.
Williams Oil-O-Matic Heating Co., Div. of National Union
Electric Corp., Columbus, O.

**FURNACES, FORCED WARM AIR, 400,000 BTUH
AND UP CAPACITY, GAS FIRED, CAST IRON**

(EXCLUSIVELY FOR DUCT DISTRIBUTION OF AIR. FOR SPACE
HEATING EXCLUSIVELY SEE HEATERS, AIR, DIRECT FIRED)

American Foundry & Furnace Co., Bloomington, Ill.
MaGirl Foundry & Furnace Co., Bloomington, Ill.

**FURNACES, FORCED WARM AIR, 400,000 BTUH
AND UP CAPACITY, GAS FIRED, STEEL**

(EXCLUSIVELY FOR DUCT DISTRIBUTION OF AIR. FOR SPACE
HEATING EXCLUSIVELY SEE HEATERS, AIR, DIRECT FIRED)

Air Conditioning Engineering Co., Cambridge, Mass.
Anchor Div., Stratton & Terstege Co., Inc., New Albany, Ind.
Arkos Mfg. Co., Detroit, Mich.
Armstrong Furnace Co., Div. of National Union Electric Corp.,
Columbus, O.
Auburn Burner Co., Edgerton, O.

Bryant Mfg. Co., Indianapolis, Ind.
Campbell Co., E. K., Kansas City, Mo.
Campbell Heating Co., Des Moines, Ia.
Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse,
N. Y.
Chicago Steel Furnace Co., Elk Grove, Ill.
Dowagiac Steel Furnace Co., Dowagiac, Mich.
Fraser & Johnston Co., San Francisco, Calif.
Green Colonial Inc., Des Moines, Ia.
Inland Heater Corp., St. Paul, Minn.
Jackson & Church Div., York-Shipley, Inc., York, Pa.
Janitrol Heating and Air Conditioning Div., Midland-Ross
Corp., Columbus, O.
Johnson Heater Corp., Chelsea, Mass.
Lee Corp., Wilmington, Del.
Lennox Industries Inc., Marshalltown, Ia.
Majestic Co., Inc., Huntington, Ind.
Mammoth Industries Inc., Minneapolis, Minn.
Meyer Furnace Co., Peoria, Ill.
Mueller Climatrol, Milwaukee, Wis.
National Heater Co., Inc., St. Paul, Minn.
Patten Co., J. V., Sycamore, Ill.
Peerless Corp., Indianapolis, Ind.
Pennsylvania Furnace & Iron Co., Warren, Pa.
Premier Furnace Co., Dowagiac, Mich.
Republic Products Co., Philadelphia, Pa.
Round Oak Div., Peerless Corp., Dowagiac, Mich.
Syncromatic Corp., Watertown, Wis.
Thermo-Products, Inc., North Judson, Ind.
Tjernlund Mfg. Co., St. Paul, Minn.
Tuck-Aire Furnace Co., San Francisco, Calif.
Waterman-Waterbury Co., Minneapolis, Minn.
Williams Oil-O-Matic Heating Co., Div. of National Union
Electric Corp., Columbus, O.

**FURNACES, FORCED WARM AIR, 400,000 BTUH
AND UP CAPACITY, OIL FIRED, CAST IRON**

(EXCLUSIVELY FOR DUCT DISTRIBUTION OF AIR. FOR SPACE
HEATING EXCLUSIVELY SEE HEATERS, AIR, DIRECT FIRED)

Air Conditioning Engineering Co., Cambridge, Mass.
American Foundry & Furnace Co., Bloomington, Ill.
Campbell Co., E. K., Kansas City, Mo.
Dowagiac Steel Furnace Co., Dowagiac, Mich.
MaGirl Foundry & Furnace Co., Bloomington, Ill.

**FURNACES, FORCED WARM AIR, 400,000 BTUH
AND UP CAPACITY, OIL FIRED, STEEL**

(EXCLUSIVELY FOR DUCT DISTRIBUTION OF AIR. FOR SPACE
HEATING EXCLUSIVELY SEE HEATERS, AIR, DIRECT FIRED)

Air Conditioning Engineering Co., Cambridge, Mass.
Anchor Div., Stratton & Terstege Co., Inc., New Albany, Ind.
Arkos Mfg. Co., Detroit, Mich.
Armstrong Furnace Co., Div. of National Union Electric Corp.,
Columbus, O.
Auburn Burner Co., Edgerton, O.
Bard Mfg. Co., Bryan, O.
Besser Furnace and Air Conditioning Corp., Charlotte, N. C.
Campbell Co., E. K., Kansas City, Mo.
Campbell Heating Co., Des Moines, Ia.
Chicago Steel Furnace Co., Elk Grove, Ill.
Domestic Mfg. Co., Seattle, Wash.
Dowagiac Steel Furnace Co., Dowagiac, Mich.
Inland Heater Co., St. Paul, Minn.
Jackson & Church Div., York-Shipley, Inc., York, Pa.
Johnson Heater Corp., Chelsea, Mass.
Keith Furnace Co., Des Moines, Ia.
Lee Corp., Wilmington, Del.
Lennox Industries Inc., Marshalltown, Ia.
Majestic Co., Inc., Huntington, Ind.
Mammoth Industries Inc., Minneapolis, Minn.
McPherson Furnace & Supply Co., Portland, Ore.
Meyer Furnace Co., Peoria, Ill.
Montag Inc., Portland, Ore.
Mueller Climatrol, Milwaukee, Wis.
National Heater Co., Inc., St. Paul, Minn.

North Coast Mfg. Corp., Portland, Ore.
 Norwalk Air Conditioning Corp., South Norwalk, Conn.
 Patten Co., J. V., Sycamore, Ill.
 Peerless Corp., Indianapolis, Ind.
 Pennsylvania Furnace & Iron Co., Warren, Pa.
 Premier Furnace Co., Dowagiac, Mich.
 Quiet Automatic Burner Corp., Newark, N. J.
 Rosebraugh Co., W. W., Salem, Ore.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Sandberg Mfg. Co., Portland, Ore.
 Syncromatic Corp., Watertown, Wis.
 Thermo-Products, Inc., North Judson, Ind.
 Tjernlund Mfg. Co., St. Paul, Minn.
 Tuck-Aire Furnace Co., San Francisco, Calif.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Weatherall Engineers, Inc., Providence, R. I.
 Wesco Furnace Div., Northwest Foundry & Furnace Co., Portland, Ore.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.

FURNACES, SOLDERING

Aeroil Products Co., Inc., South Hackensack, N. J.
 Bernz Co., Otto, Rochester, N. Y.
 Clayton & Lambert Mfg. Co., Louisville, Ky.
 Fieser Co., F. J., New York, N. Y.
 Goss Gas Inc., Glenshaw, Pa.
 Hones, Inc., Charles A., Baldwin, N. Y. (Gas).
 Inland Steel Products Co., Milwaukee, Wis.
 Insto-Gas Corp., Detroit, Mich. (Gas)
 Johnson Gas Appliance Co., Cedar Rapids, Iowa.
 Kenetzer & Co., Frank, Chicago, Ill.
 Moncrief Lenoir Mfg. Co., Houston, Tex.
 Mutual Liquid Gas & Equipment Co., Gardena, Calif.
 New Delphos Mfg. Co., Delphos, O. (Charcoal)
 Ransome Torch & Burner Co., Emeryville, Calif.
 Reiner & Campbell Co., Inc., Newark, N. J.
 Reliable Mach. & Mfg. Co., Inc., Cedar Rapids, Iowa.
 Sanders, J. A., Fulton, N. Y.
 Turner Corp., Sycamore, Ill.
 Unique Mfg. Co., Inc., Chicago, Ill. (Gasoline, Kerosene).
 Vulcan Electric Co., Div. Consolidated Electric Lamp Co., Inc., Danvers, Mass. (Electric)
 Weldit, Inc., Detroit, Mich.

FURNACES, WARM AIR, GRAVITY, COAL FIRED, CAST IRON

Agricola Furnace Co., Inc., Gadsden, Ala.
 American Foundry & Furnace Co., Bloomington, Ill.
 American Furnace Co., St. Louis, Mo.
 American-Standard Air Conditioning Div., New York, N. Y.
 Green Colonial Inc., Des Moines, Iowa.
 Livingston, Inc., Marshall, Mich.
 Premier Furnace Co., Dowagiac, Mich.
 St. Clair Foundry Corp., Centralia, Ill.
 Skinner Heating & Ventilating Co. Div. Young Sales Corp., St. Louis, Mo.
 Spear Stove & Heater Co., James, Philadelphia, Pa.
 Thatcher Furnace Co., Garwood, N. J.
 Union Mfg. Co., Inc., Boyertown, Pa.
 XXth Century Heating & Ventilating Co., Akron, Ohio.

FURNACES, WARM AIR, GRAVITY, COAL FIRED, STEEL

Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, Ohio.
 Bard Mfg. Co., Bryan, Ohio.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Campbell Heating Co., Des Moines, Iowa.
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Daniels Mfg. Co., Inc., Sam, Hardwick, Vt.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Floral City Heater Div., United States Air Conditioning Corp., Monroe, Mich.
 Front Rank Mfg. Co., Div. Gross Aire Mfg. Co., St. Louis, Mo.
 Furblo Co., Hermansville, Mich.
 Hall-Neal Furnace Co., Indianapolis, Ind.

Henry Furnace Co., Medina, Ohio.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Kalamazoo Furnace and Appliance Mfg. Co., Kalamazoo, Mich.
 Lennox Industries Inc., Marshalltown, Ia.
 Majestic Co., Inc., Huntington, Ind.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 Meyer Furnace Co., Peoria, Ill.
 Olsen Mfg. Co., C. A., Elyria, Ohio.
 Oneida Heater Co., Inc., Oneida, N. Y.
 Peerless Corp., Indianapolis, Ind.
 Premier Furnace Co., Dowagiac, Mich.
 Rosebraugh Co., W. W., Salem, Ore.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, Ohio.
 Sandberg Mfg. Co., Portland, Ore.
 Schill Mfg. Co., Crestline, Ohio.
 Syncromatic Corp., Watertown, Wis.
 Thatcher Furnace Co., Garwood, N. J.
 Toridheet Div., Cleveland Steel Products Corp., Cleveland, Ohio.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Wesco Furnace Div., Northwest Foundry & Furnace Co., Portland, Ore.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, Ohio.

FURNACES, WARM AIR, GRAVITY, FLOOR, ELECTRIC

Heating Assurance, Inc., Spokane, Wash.
 Martin Stamping & Stove Co., Huntsville, Ala.
 Meier Electric & Machine Co., Inc., Indianapolis, Ind.
 Wesix Electric Heater Co., San Francisco, Calif.
 Wilson Electric Furnaces, Rossville, Ga.

FURNACES, WARM AIR, GRAVITY, FLOOR, GAS

Advance Furnace Co., Wichita, Kans.
 Agricola Furnace Co., Inc., Gadsden, Ala.
 American Ideal-Aire Corp., Garden City, N. Y.
 Bastian-Morley Co., Inc., La Porte, Ind.
 Benner-Nawman, Inc., Oakland, Calif.
 Bryant Mfg. Co., Indianapolis, Ind.
 Central States Mfg. Co., Inc., Arkansas City, Kans.
 Coleman Co., Inc., Wichita, Kans.
 Draco Co., Charlotte, N. C.
 Empire Stove Co., Belleville, Ill.
 Grove Furnace, Inc., Garden Grove, Calif.
 Holly-General Co., Pasadena, Calif.
 King Stove and Range Co., Sheffield, Ala.
 Kleer-Kleen Mfg. Co., Hayward, Calif.
 Kresky Mfg. Co., Inc., Petaluma, Calif.
 Leukart Machine Co., J., Columbus, O.
 Little Burner Co., Inc., H. C., San Rafael, Calif.
 Major Metal Products, Inc., Los Angeles, Calif.
 Martin Stamping & Stove Co., Huntsville, Ala.
 Meyer Furnace Co., Peoria, Ill.
 Mt. Vernon Furnace & Mfg. Co., Mt. Vernon, Ill.
 Payne Co., The, La Puente, Calif.
 Pennsylvania Furnace & Iron Co., Warren, Pa.
 Ran Appliance Corp., D. P., Compton, Calif.
 Rheem Mfg. Co., Chicago, Ill.
 Samuel Stamping & Enameling Co., Chattanooga, Tenn.
 Southern Heater Corp., Compton, Calif.
 Southwest Mfg. Co., Aurora, Mo.
 Sunshine Mantle Co., Chanute, Kans.
 Temco, Inc., Nashville, Tenn.
 Temperature Appliance Mfg. Corp., Sebastopol, Calif.
 Tuck Aire Furnace Co., San Francisco, Calif.
 Viking Mfg. Corp., Cleveland, Ohio.
 Zink Co., John, Tulsa, Okla.

FURNACES, WARM AIR, GRAVITY, FLOOR, OIL

Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind.
 Auburn Burner Co., Edgerton, O.
 Benner-Nawman, Inc., Oakland, Calif.
 Coleman Co., Inc., Wichita, Kans.
 Federal Heating and Cooling Corp., Charlotte, N. C.
 Kleer-Kleen Mfg. Co., Hayward, Calif.
 Kresky Mfg. Co., Inc., Petaluma, Calif.
 Leukart Machine Co., J., Columbus, O.
 Monogram Industries, Inc., Quincy, Ill.

Northwest Metal Products, Inc., Seattle, Wash.
 Quiet Automatic Burner Corp., Newark, N. J.
 Therm Oil Burner Co., Seattle, Wash.
 Thermo-Products, Inc., North Judson, Ind.

FURNACES, WARM AIR, GRAVITY, GAS FIRED, CAST IRON

Niagara Furnace Div., Forest City Foundries Co., Cleveland Ohio.
 XXth Century Heating & Ventilating Co., Akron, Ohio.

FURNACES, WARM AIR, GRAVITY, GAS FIRED, STEEL

Advance Furnace Co., Wichita, Kans.
 Airwasher Corp., Eaton Rapids, Mich.
 Aladdin Heating Corp., San Leandro, Calif.
 American-Standard Air Conditioning Div., New York, N. Y.
 Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, Ohio.
 Auburn Burner Co., Edgerton, O.
 Autogas Co., Bellwood, Ill.
 Bard Mfg. Co., Bryan, O.
 Bonair Div., Peerless Products Co., Philadelphia, Pa.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Campbell Heating Co., Des Moines, Iowa.
 Columbia Burner Co., Toledo, Ohio.
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Dalzen Mfg. Co., St. Clair, Mich.
 Dornback Furnace & Foundry Co., Eastlake, Ohio.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Floral City Heater Div., United States Air Conditioning Corp., Monroe, Mich.
 Fraser and Johnston Co., San Francisco, Calif.
 Front Rank Mfg. Co., Div. Gross Aire Mfg. Co., St. Louis, Mo.
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Hart Heat Div., Avery Farm Machinery Co., Peoria, Ill.
 Henry Furnace Co., Medina, Ohio.
 Holly-General Co., Pasadena, Calif.
 International Heater Co., Utica, N. Y.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Kalamazoo Furnace and Appliance Mfg. Co., Kalamazoo, Mich.
 Leeson Air Cond. Corp., Detroit, Mich.
 Lennox Industries Inc., Marshalltown, Iowa.
 Lundt, Inc., Ernest C., Little Falls, N. J.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 McDonald Mfg. Co., A. Y., Dubuque, Ia.
 Metzger Machine & Engineering Co., Thermoflo Div., Milwaukee, Wis.
 Meyer Furnace Co., Peoria, Ill.
 Miami Products Div. of Crane Co., Miami, Okla.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 Olsen Mfg. Co., C. A., Elyria, Ohio.
 Oneida Heater Co., Inc., Oneida, N. Y.
 Payne Beverly Mfg. Co., Beverly Hills, Calif.
 Peerless Corp., Indianapolis, Ind.
 Pennsylvania Furnace & Iron Co., Warren, Pa.
 Premier Furnace Co., Dowagiac, Mich.
 Rheem Mfg. Co., Chicago, Ill.
 Richmond Plumbing Fixtures Div., Rheem Mfg. Co., Metuchen, N. J.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, Ohio.
 Ryniker Steel Products Co., Billings, Mont.
 Schill Mfg. Co., Crestline, Ohio.
 Sequoia Mfg. Co., San Carlos, Calif.
 Sheet Metal Mfg. Co., Youngstown, O.
 Temco, Inc., Nashville, Tenn.
 Thatcher Furnace Co., Garwood, N. J.
 Toridheet Div., Cleveland Steel Products Corp., Cleveland, Ohio.
 Tuck-Aire Furnace Co., San Francisco, Calif.
 Viking Mfg. Corp., Cleveland, O.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, Ohio.
 Zick Sheet Metal Works, Dearborn, Mich.

FURNACES, WARM AIR, GRAVITY, OIL FIRED, CAST IRON

Front Rank Mfg. Co., Div. Gross Aire Mfg. Co., St. Louis, Mo.
 Sheet Metal Mfg. Co., Youngstown, O.
 XXth Century Heating & Ventilating Co., Akron, Ohio.

FURNACES, WARM AIR, GRAVITY, OIL FIRED, STEEL

Airwasher Corp., Eaton Rapids, Mich.
 American-Standard Air Conditioning Div., New York, N. Y.
 Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind.
 Auburn Burner Co., Edgerton, O.
 Autogas Co., Bellwood, O.
 Bard Mfg. Co., Bryan, Ohio.
 Bonair Div., Peerless Products Co., Philadelphia, Pa.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Campbell Heating Co., Des Moines, Iowa.
 Cary Mfg. Co., Waupaca, Wis.
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Dalzen Mfg. Co., St. Clair, Mich.
 Daniels Mfg. Co., Inc., Sam, Hardwick, Vt.
 Dornback Furnace & Foundry Co., Eastlake, O.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Floral City Heater Div., United States Air Conditioning Corp., Monroe, Mich.
 Front Rank Mfg. Co., Div. Gross Aire Mfg. Co., St. Louis, Mo.
 Furbo Co., Hermansville, Mich.
 Green Colonial Inc., Des Moines, Iowa.
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Hart Heat Div., Avery Farm Machinery Co., Peoria, Ill.
 Henry Furnace Co., Medina, Ohio.
 Home Furnace Co., Holland, Mich.
 International Heater Co., Utica, N.Y.
 Jungers Stove & Range Co., Grafton, Wis.
 Kalamazoo Furnace and Appliance Mfg. Co., Kalamazoo, Mich.
 Kaustine Furnace & Tank Corp., Perry, N. Y.
 Keith Furnace Co., Des Moines, Iowa.
 Laco Oil Burner Co., Inc., Griswold, Ia.
 Leeson Air Cond. Corp., Detroit, Mich.
 Lennox Industries, Inc., Marshalltown, Iowa.
 Lundt, Inc., Ernest C., Little Falls, N. J.
 McDonald Mfg. Co., A. Y., Dubuque, Ia.
 Metro Metal Mfg. Co., Holt, Mich.
 Metzger Machine & Engineering Co., Thermoflo Div., Milwaukee, Wis.
 Meyer Furnace Co., Peoria, Ill.
 Miami Products Div. of Crane Co., Miami, Okla.
 Montag Inc., Portland, Ore.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 North Coast Mfg. Corp., Portland, Ore.
 Olsen Mfg. Co., C. A., Elyria, Ohio.
 Peerless Corp., Indianapolis, Ind.
 Peerless Heater Co., Boyertown, Pa.
 Premier Furnace Co., Dowagiac, Mich.
 Rosebraugh Co., W. W., Salem, Ore.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, Ohio.
 Sandberg Mfg. Co., Portland, Ore.
 Schill Mfg. Co., Crestline, O.
 Sheet Metal Mfg. Co., Youngstown, O.
 Syncromatic Corp., Watertown, Wis.
 Thatcher Furnace Co., Garwood, N. J.
 Viking Mfg. Corp., Cleveland, Ohio.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Wesco Furnace Div., Northwest Foundry & Furnace Co., Portland, Ore.
 Zick Sheet Metal Works, Dearborn, Mich.

FURNACES, WARM AIR, GRAVITY, PIPELESS, CAST IRON

Agricola Furnace Co., Inc., Gadsden, Ala.
 Green Colonial Inc., Des Moines, Ia.
 St. Clair Foundry Corp., Centralia, Ill.
 Souther Iron Co., E. E., St. Louis, Mo.

FURNACES, WARM AIR, GRAVITY, PIPELESS, STEEL

Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, Ohio.

Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Daniels Mfg. Co., Inc., Sam, Hardwick, Vt.
 Ingersoll Products Div., Borg-Warner Corp., Kalamazoo, Mich.
 Keith Furnace Co., Des Moines, Iowa.
 Montag Inc., Portland, Ore.
 Oneida Heater Co., Inc., Oneida, N. Y.
 Pennsylvania Furnace & Iron Co., Warren, Pa.
 Rosebraugh Co., W. W., Salem, Ore.
 Thatcher Furnace Co., Garwood, N. J.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.

FURNACES, WARM AIR, GRAVITY, WALL, GAS

Advance Furnace Co., Wichita, Kans.
 Bastian-Morely Co., Inc., La Porte, Ind.
 Chattanooga Royal Co., Chattanooga, Tenn.
 Coleman Co., Inc., Wichita, Kans.
 Commonwealth Co., Alhambra, Calif.
 Custom-Aire Products Div., Pacific Industries, Inc., San Francisco, Calif.
 Day & Night Mfg. Co., La Puente, Calif.
 Dearborn Stove Co., Dallas, Tex.
 Gaffers & Sattler, Los Angeles, Calif.
 Glenwood Range Co., Taunton, Mass.
 Grove Furnace, Inc., Garden Grove, Calif.
 Heil-Quaker Corp., Nashville, Tenn.
 Holly-General Co., Pasadena, Calif.
 King Stove and Range Co., Sheffield, Ala.
 Little Burner Co., Inc., H. C., San Rafael, Calif.
 Monogram Industries, Inc., Quincy, Ill.
 Payne Co., The, La Puente, Calif.
 Peerless Mfg. Div., Dover Corp., Louisville, Ky.
 Pioneer Co., Los Angeles, Calif.
 Samuel Stamping & Enameling Co., Chattanooga, Tenn.
 Southwest Mfg. Co., Aurora, Mo.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Lebanon, Ind.
 Suburban Appliance Co., Morristown, N. J.
 Temco, Inc., Nashville, Tenn.
 Tuck-Aire Furnace Co., San Francisco, Calif.
 Williams Furnace Co., Buena Park, Calif.

FURNACES, WARM AIR, GRAVITY, WALL, OIL

Heil-Quaker Corp., Nashville, Tenn.
 Kresky Mfg. Co., Inc., Petaluma, Calif.
 Monogram Industries, Inc., Quincy, Ill.
 Northwest Metal Products, Inc., Seattle, Wash.
 Silent Sioux Corp., George City, Ia.

FURNACES, WARM AIR, GRAVITY, WOOD BURNING, CAST IRON

XXth Century Heating & Ventilating Co., Akron, O.

FURNACES, WARM AIR, GRAVITY, WOOD BURNING, STEEL

Bovee Furnace Works, Waterloo, Iowa.
 Campbell Co., E. K., Kansas City, Mo.
 Campbell Heating Co., Des Moines, Iowa.
 Daniels Mfg. Co., Inc., Sam, Hardwick, Vt.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Front Rank Mfg. Co., Div. Gross Aire Mfg. Co., St. Louis, Mo.
 Furblo Co., Hermansville, Mich.
 International Heater Co., Utica, N. Y.
 Kalamazoo Furnace and Appliance Mfg. Co., Kalamazoo, Mich.
 Montag, Inc., Portland, Ore.
 North Coast Mfg. Corp., Portland, Ore.
 Rosebraugh Co., W. W., Salem, Ore.
 Sandberg Mfg. Co., Portland, Ore. (Sawdust)
 Syncromatic Corp., Watertown, Wis.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Wesco Furnace Div., Northwest Foundry & Furnace Co., Portland, Ore.

GAGES, DRAFT, INDICATING, PORTABLE

Bacharach Industrial Instrument Co., Pittsburgh, Pa.

Bristol Co., Waterbury, Conn.
 Dwyer Mfg. Co., F. W., Michigan City, Ind.
 Ellison Draft Gage Co., Inc., Chicago, Ill.
 General Controls Co., Glendale, Calif.
 Hays Corp., Michigan City, Ind.
 Hill & Co., E. Vernon, Lake Geneva, Wis.
 Meriam Instrument Co., Cleveland, Ohio.
 Moeller Instrument Co., Richmond Hill, N. Y.
 Precision Thermometer & Instrument Co., Philadelphia, Pa.
 Uehling Instrument Co., Paterson, N. J.

GAGES, INDICATING, FILTER RESISTANCE

Bacharach Industrial Instrument Co., Pittsburgh, Pa.
 Better Engineered Controls, Los Angeles, Calif.
 Dwyer Mfg. Co., F. W., Michigan City, Ind.
 Ellison Draft Gage Co., Inc., Chicago, Ill.
 Hays Corp., Michigan City, Ind.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Research Appliance Co., Allison Park, Pa.
 Rex Metal-Craft, Inc., Indianapolis, Ind.
 Rybolt Heater Co., Ashland, O.
 Skuttle Mfg. Co., Milford, Mich.
 Uehling Instrument Co., Paterson, N. J.
 Viking Instruments, Inc., East Haddam, Conn.
 York Div. of Borg-Warner Corp., York, Pa.

GAGES, PRESS BRAKE

Addresso Mfg. Co., Franklin Park, Ill.
 American Actuator Corp., Stamford, Conn. (Magnetic)

GAGES, PRESSURE, INDICATING (FOR REFRIGERANTS AND FUEL OIL)

Imperial Brass Mfg. Co., Chicago, Ill.
 Manning, Maxwell & Moore, Inc., Stratford, Conn.
 Marshalltown Mfg. Co., Marshalltown, Ia.
 Marsh Corp., Jas. P., Skokie, Ill.
 United States Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.
 Weksler Instruments Corp., Freeport, N. Y.

GAGES, TANK, FUEL OIL

Applied Mechanics Co., Boston, Mass.
 Barclay, Inc., Robt., Chicago, Ill.
 Bearlee Products Co., Green Bay, Wis.
 Boston Machine Works Co., Lynn, Mass.
 Carlson Co., Inc., A. B., Aurora, Ill.
 Harvey, Inc., Sid, Valley Stream, N. Y.
 Hasko Utilities Co., New York, N. Y.
 Homeward Products, Inc., Des Moines, Ia.
 Kresno-Stamm Mfg. Co., Palisades Park, N. J.
 Krueger Sentry Gauge Co., Green Bay, Wis.
 Liquidometer Corp., Long Island City, N. Y.
 Mel-Gauge Co., New Haven, Conn.
 Meriam Instrument Co., Cleveland, O.
 Oil Equipment Mfg. Co., New Haven, Conn.
 Petrometer Corp., Long Island City, N. Y.
 Red Wing Oil Burner Co., Inc., Medford, Mass.
 Rochester Mfg. Co., Inc., Rochester, N.Y.
 Scully Signal Co., Melrose, Mass.
 Simplex Distributors, Inc. Brooklyn, N. Y.
 Uehling Instrument Co., Paterson, N. J.

GALVANIZED SHEETS

See Sheets, Metal, Steel, Galvanized

GARAGE EXHAUST FITTINGS

See Fittings, Exhaust, Garage

GAS BURNER CONTROLS

See Controls, Control Systems

GAS BURNERS

See Burners, Gas, Residential

GASKETS, CURTAIN WALL PANEL

See Sealants, Molded

GASKETS, FILTER FRAME SEALING

Evans Corp., George, Moline, Ill.
Greene, Tweed & Co., North Wales, Pa.
Pacific States Felt & Mfg. Co., Inc., San Francisco, Calif.
Products Research Co., Burbank, Calif.
United Mineral & Chemical Corp., New York, N. Y.

GAS LIGHTER TUBES

See Controls, Pilot, Gas Burner

GAS REGULATOR VALVES

See Valves, Gas Pressure Regulating

GAS VENTS

See Vents, Gas

GATES, BLAST

Berger Bros. Co., Philadelphia, Pa.
Buffalo Forge Co., Buffalo, N. Y.
Champion Blower & Forge Co., Lancaster, Pa.
Clarge Fan Co., Kalamazoo, Mich.
Day Co., Minneapolis, Minn.
DeVilbiss Co., The, Metal Fabricators Div., Detroit, Mich.
Ducon Co., The, Mineola, N. Y.
Goethel Sheet Metal Works, Inc., Alfred, Milwaukee, Wis.
Industrial Plastic Fabricators, Inc., Norwood, Mass. (Plastic)
Kirk & Blum Mfg. Co., Cincinnati, Ohio.
Pahl & Hepper Mfg. Co., Inc., St. Louis, Mo.
Rees Blow Pipe Mfg. Co., Inc., Berkeley, Calif.
Skinner Heating & Ventilating Co., St. Louis, Mo.
Spencer Turbine Co., Hartford, Conn.
Western Blower Co., Seattle, Wash.
Winkler & Sons, Inc., A. E., Milwaukee, Wis.

GEARING, SKYLIGHT

See Lifts, Skylight

GERMICIDAL APPARATUS

See Sterilizers, Air

GLASSES, SIGHT, FOR REFRIGERANT LINES

Allin Mfg. Co., Chicago, Ill.
Ansul Chemical Co., Refrigeration Div., Marinette, Wis.
Henry Valve Co., Melrose Park, Ill.
McIntire Co., Livingston, N. J.

GLASS, INSULATED WINDOW PANELS

Libbey-Owens Ford Glass Co., Toledo, O.
Pittsburgh Plate Glass Co., Pittsburgh, Pa.

GLASS, WIRE, FOR SKYLIGHTS

American-St. Gobain Corp., New York, N. Y.
Atcheson Glass Co., Buffalo, N. Y.
Pennsylvania Wire Glass Co., Philadelphia, Pa.
Robertson Co., H. H., Pittsburgh, Pa.

GRAVITY FURNACES

See Furnaces, Warm Air, Gravity

GRAVITY REGISTERS

See Registers, Heating, Ventilating and Air Conditioning

GREASE FILTERS

See Filters, Air, Grease

GRILLE-FILTER COMBINATION

Dry Mfg. Co., Winters, Tex.

GRILLES, DOOR

A-J Mfg. Co., Kansas City, Mo.
Air Devices, Inc., New York, N. Y.
Air-Factors, Inc., Monrovia, Calif.
Barber-Colman Co., Rockford, Ill.
Carnes Corp., Verona, Wis.
Controlair Mfg. Co., Los Angeles, Calif.
Hart & Cooley Mfg. Co., Holland, Mich.
Independent Register Co., Cleveland, O.
Krueger Air Conditioning Corp., Tucson, Ariz.
Lima Register Co., Lima, O.
Shoemaker Mfg. Co., Seattle, Wash.
Standard Stamping & Perforating Co., Chicago, Ill.
Tuttle & Bailey Div. of Allied Thermal Corp., New Britain, Conn.
United States Register Co., Battle Creek, Mich.
Universal Diffuser Corp., Tuckahoe, N. Y.
Young Regulator Co., Cleveland, O.

GRILLES, HEATING, VENTILATING AND AIR CONDITIONING

Also See Faces and Registers

A & A Register Co., Cleveland, Ohio.
A-J Mfg. Co., Kansas City, Mo.
Air Control Products, Inc., Coopersville, Mich.
Air Devices, Inc., New York, N. Y.
Air Distribution Products Co., Los Angeles, Calif.
Air-Factors, Inc., Monrovia, Calif.
Airguide Plastics Corp., Miami, Fla. (Nylon)
American Warming & Ventilating Co., Toledo, Ohio.
American Welding & Mfg. Co., Building Products Div., Warren, O. (Door)
Arizona Maintenance Co., Tucson, Ariz.
Auer Register Co., Cleveland, Ohio.
Austin Engineering & Mfg. Co., Inc., Ysleta, Tex.
Bahson Co., Winston-Salem, N. C.
Barber-Colman Co., Rockford, Ill.
Beckley Perforating Co., Garwood, N. J.
Berger Furnace Corp., Belle Vernon, Pa.
Carnes Corp., Verona, Wis.
Central Mfg. Co., Houston, Tex. (Combination filter and return grille)
Char-Gale Mfg. Co., Anoka, Minn.
Cleveland Register & Grille Mfg. Co., Cleveland, O.
Connor Engineering Corp., Danbury, Conn.
Controlair Mfg. Co., Los Angeles, Calif.
Corbman Bros., Inc., Philadelphia, Pa.
Diamond Mfg. Co., Wyoming, Pa.
Dowagiac Steel Furnace Co., Dowagiac, Mich.
Dry Mfg. Co., Winters, Tex.
Erdle Perforating Co., Rochester, N. Y.
General Air Products Corp., Stirling, N. J.
Harrington & King Perforating Co., Chicago, Ill.
Harrison Sheet Steel Co., Chicago, Ill.
Hart & Cooley Mfg. Co., Holland, Mich.
Hastings Air Control, Inc., Omaha, Nebr.
Hendrick Mfg. Co., Carbondale, Pa.
Independent Register Co., Cleveland, Ohio.
International Mfg. Co., Oklahoma City, Okla.
Juniper Elbow Co., Inc., Middle Village, L. I., N. Y.
Krauser-Boyd, Inc., North Tonawanda, N. Y.
Krueger Air Conditioning Corp., Tucson, Ariz.
Lau Blower Co., Dayton, O.
Leigh Industries Inc., Asheville, N. C.
Lenly Mfg. Co., Inc., Los Angeles, Calif.
Lima Register Co., Lima, Ohio.
Made-Rite Co., Inc., Newport, Ky.
Manhattan Perforated Metal Co., Inc., Long Island City, N. Y.

Maurlee Co., Inc., Woodbury Heights, N. J.
 Metal Industries, Inc., Clearwater, Fla.
 Midco Register Corp., St. Paul, Minn.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Mundt & Sons, Charles, Jersey City, N. J.
 National Grille & Register Co., Cleveland, O.
 Patco Mfg. Co., Philadelphia, Pa.
 Register & Grille Mfg. Co., Inc., Brooklyn, N. Y.
 Rock Island Register Co., Rock Island, Ill.
 Shoemaker Mfg. Co., Seattle, Wash.
 Smith Co., J. B., Philadelphia, Pa.
 Standard Stamping & Perforating Co., Chicago, Ill.
 Temco, Inc., Nashville, Tenn.
 Titus Mfg. Corp., Waterloo, Ia.
 Tuttle & Bailey Div. of Allied Thermal Corp., New Britain, Conn.
 United States Register Co., Battle Creek, Mich.
 Universal Diffuser Corp., Tuckahoe, N. Y.
 Waterloo Register Co., Inc., Waterloo, Ia.
 Wilde Register & Grille Co., Detroit, Mich.
 Young Regulator Co., Cleveland, O.

GRILLES, RETURN AIR, BASEBOARD

(Longitudinal Slot Type)

A-J Mfg. Co., Kansas City, Mo.
 Air Control Products, Inc., Coopersville, Mich.
 Auer Register Co., Cleveland, O.
 Carnes Corp., Verona, Wis.
 Hart & Cooley Mfg. Co., Holland, Mich.
 Lima Register Co., Lima, O.
 Titus Mfg. Corp., Waterloo, Ia.
 United States Register Co., Battle Creek, Mich.
 Waterloo Register Co., Inc., Waterloo, Ia.

GRINDERS, BUFFERS, POLISHERS AND SANDERS

See Buffers, Grinders, Polishers and Sanders

GROOVING MACHINES

See Machines, Grooving

GUARDS, SNOW

Barnard Co., Geo. A., Worcester, Mass.
 Berger Bros. Co., Philadelphia, Pa.
 Cartier & Sons Co., M. N., Providence, R. I.
 Chase Brass & Copper Co., Inc., Waterbury, Conn.
 Cody Co., F. C., Chicago, Ill.
 Cromley's, Lewisburg, Pa.
 Danzer Metal Works Co., Hagerstown, Md.
 Folsom Snow Guard Co., Millis, Mass.
 Hussey & Co., C. G., Pittsburgh, Pa.
 Jalco Mfg. Co., Temple, Pa. (Cast aluminum)
 Levow, Inc., David, South Hackensack, N. J.
 Obdyke, Inc., Philadelphia, Pa.
 Royal-Apex Mfg. Co., Inc., Brooklyn, N. Y.

GUNS, ADHESIVE

Bostik Adhesive Dept., B. B. Chemical Co., Subsidiary of
 United Shoe Machinery Corp., Boston, Mass.

GUNS, PLASTIC WELDING

American Agile Corp., Bedford, O.
 D & R Plastic Welders, Inc., Hazardville Conn.
 Industrial Plastic Fabricators, Inc., Norwood, Mass.
 Kamlar Products Co., Norwood, Mass.
 Laramy Products Co., Cohasset, Mass.
 Seelye Craftsmen, The, Minneapolis, Minn.

GUNS, RIVET

Chicago Pneumatic Tool Co., New York, N. Y.
 Huck Mfg. Co., Detroit, Mich.
 Insul-Coustic Corp., Maspeth, N. Y.
 Pop Rivet Div., United Shoe Machinery Corp., Shelton, Conn.
 Richline Co., Inc., Minneapolis, Minn.

GUNS, SOOT

Ampion Corp., Long Island City, N. Y.
 Miller Product Co., Lansing, Mich.
 S. O. S. Products Co., Inc., Brooklyn, N. Y.

GUNS, SPRAY, METAL

Albertson & Co., Inc., Sioux City, Ia.
 M & E Mfg. Co., Indianapolis, Ind.
 Wall Colmonoy Corp., Detroit, Mich.

GUNS, SPRAY, PAINT

Black Mfg. Co. Div., Alexander Milburn, Inc., Baltimore, Md.
 Eclipse Air Brush Co., Newark, N. J.
 Plummer Spray Equipment Co., Napoleon, Ohio.
 Ransburg Electro-Coating Corp., Indianapolis, Ind. (Electrostatic)
 Spray Engineering Co., Burlington, Mass.
 Thomas Industries, Inc., Electric Sprayit Div., Sheboygan, Wis.

GUNS, WELDING, STUD

Ammo Products, Inc., Washington, D. C. (Cartridge)
 Columbia-Matic "8" Corp., Div. of Columbia Mills, Inc., Syracuse, N. Y. (Powder actuated)
 K. S. M. Products, Inc., Moorestown, N. J.
 Mine Safety Appliances Co., Pittsburgh, Pa. (Cartridge actuated)
 Nelson Stud Welding Div., Gregory Industries, Inc., Lorain, O. (Welding)
 Omack Industries, Inc., Portland, Ore. (Powder actuated and arc welding)
 Ramset Fastening System, Winchester-Western Div., Olin Mathieson Chemical Corp., New Haven, Conn. (Powder actuated)
 Remington Arms Co., Inc., Bridgeport, Conn. (Powder actuated)
 Shielded Stud Welding Co., Long Beach, Calif.

GUTTER ACCESSORIES

Hangers, conductors, strainers, miters, and caps, slip joints, thimbles, funnels, guards, etc.

Accurate Sheet Metal & Mfg. Works, Chicago, Ill. (Hangers and guards)
 Ajax Furnace Fitting Co., Div. Cincinnati Sheet Metal & Roofing Co., Cincinnati, Ohio.
 Alabama Metal Lath Co., Birmingham, Ala.
 Aluminum Co. of America, Pittsburgh, Pa. (Aluminum)
 American Metal Products, Los Angeles, Calif.
 Atchison Specialty Mfg. Co., Atchison, Kans.
 Backstop Co., Cleveland, O. (Gutter and eave edge flashing)
 Barnes Metal Products Co., Chicago, Ill.
 Berger Bros. Co., Philadelphia, Pa. (End pieces, end caps, conductor strainers, miters, slip joints)
 Berger Div., Republic Steel Corp., Canton, O.
 Boosey Mfg. Co., Norman, Detroit, Mich. (Strainers)
 Braden Mfg. Co., Inc., Terre Haute, Ind.
 Central Heating Service, Peoria, Ill. (Ferrules)
 Char-Gale Mfg. Co., Anoka, Minn.
 Chase Brass & Copper Co., Inc., Waterbury, Conn.
 Cincinnati Elbow Co., Cincinnati, O. (Elbows)
 Commercial Machine & Welding Co., Dover, O. (Hangers)
 Enderle Inc., Ltd., Frank X., Los Angeles, Calif.
 Famous Furnace Co., Cleveland, Ohio. (Strap hangers, end caps)
 Franck & Fric, Inc., Cleveland, O. (Conductor fasteners)
 Galvan Mfg. Co., New Albany, Ind. (Elbows)
 Gary Steel Products Corp., Gary, Ind. (Hangers, miters, end caps, slip joints)
 Glatt Gutter Anchors, Chicago, Ill. (Hangers)
 Harrison Sheet Steel Co., Chicago, Ill.
 Haven-Busch Co., Grandville, Mich. (Strainers)
 Hussey & Co., C. G., Pittsburgh, Pa. (Copper)
 Inland Steel Products Co., Milwaukee, Wis.
 J & J Sheet Metal Co., Warren, Mich.
 Klauer Mfg. Co., Dubuque, Iowa.
 Labeled Metal Products Corp., Broadview, Ill.
 LaCrosse Steel Roofing & Corrugating Co., LaCrosse, Wis.
 Levow, Inc., David, South Hackensack, N. J.

Lockhart Mfg. Corp., Farmington, Mich. (Guards)
 Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif.
 Maze Co., W. H., Peru, Ill. (Spikes)
 Moncrief Lenoir Mfg. Co., Houston, Tex.
 National Elbow and Fitting Corp., Long Island City, N. Y.
 New Delphos Mfg. Co., Delphos, Ohio.
 Northwest Metal Products, Inc., Seattle, Wash.
 Obdyke, Inc., B. P., Philadelphia, Pa.
 Owens-Corning Fiberglas Corp., New York, N. Y. (Glass fiber)
 Penn Supply & Metal Corp., Philadelphia, Pa. (Conductor, slip joints, funnels)
 Permanent Products, Inc., St. Paul, Minn. (Glass fiber)
 Profit Products Corp., Glen Ellyn, Ill.
 Quaker State Metals Co., Lancaster, Pa.
 Reeves Steel & Mfg. Co., Div. of Empire-Reeves Steel Corp., Dover, O. (Mitters, end caps, slip joints, funnels)
 Republic Steel Corp., Cleveland, O.
 Reynolds Metals Co., Richmond, Va. (Aluminum).
 Riffin Metal Products, Inc., Kankakee, Ill.
 Roofing & Supply Co., Chattanooga, Tenn.
 Royal-Apex Mfg. Co., Inc., Brooklyn, N. Y.
 Sheet Metal Mfg. Co., Inc., Brooklyn, N. Y.
 Sioux Steel Co., Sioux Falls, S. D.
 Snap-On Mfg. Co., Chicago, Ill. (Hangers).
 Standard Metal Fabricating Co., Omaha, Nebr.
 Steele Mfg. Co., Ashland, Ky. (Gutter guards).
 Steel Products Supply Co., Glen Ellyn, Ill. (Ends)
 Tiffin Art Metal Co., Tiffin, Ohio. (Hangers, miters, ends, thimbles).
 Union Sheet Metal Supply Co., Cleveland, O.
 Wallace Co., William, Metalbestos Div., Belmont, Calif.
 Wheeling Corrugating Co., Wheeling, W. Va.
 Wiretex Mfg. Co., Inc., Bridgeport, Conn. (Strainers)
 Wolf, Arthur E., Cleveland, O. (Guards)

GUTTER FORMERS

See Machines, Gutter Forming

GUTTERS

Acme Mfg. Co., Philadelphia, Pa. (Galvanized and aluminum)
 Ajax Furnace Fittings Co., Div. Cincinnati Sheet Metal & Roofing Co., Cincinnati, Ohio.
 Alabama Metal Lath Co., Birmingham, Ala. (Steel & copper).
 Aluminum Co. of America, Pittsburgh, Pa. (Aluminum)
 Barnes Metal Products Co., Chicago, Ill. (Zinc, aluminum, galvanized, copper)
 Berger Bros. Co., Philadelphia, Pa.
 Berger Div., Republic Steel Corp., Canton, O. (Galvanized, copper, terne, stainless)
 Braden Mfg. Co., Inc., Terre Haute, Ind.
 Char-Gale Mfg. Co., Anoka, Minn.
 Chase Brass & Copper Co., Inc., Waterbury, Conn. (Copper)
 Conner Mfg. Co., Louisville, Ky. (Galvanized, copper, aluminum)
 Enderle Inc., Ltd., Frank X., Los Angeles, Calif. (Galvanized)
 Gary Steel Products Corp., Gary, Ind. (Galvanized)
 Harrison Sheet Steel Co., Chicago, Ill. (Alum.)
 Hussey & Co., C. G., Pittsburgh, Pa. (Copper)
 Inland Steel Products Co., Milwaukee, Wis. (Galvanized, aluminum, copper)
 Klauer Mfg. Co., Dubuque, Iowa. (Galvanized steel)
 Labeled Metal Products Corp., Broadview, Ill. (Galvanized steel)
 La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis. (Galvanized steel)
 Matthiessen & Hegeler Zinc Co., LaSalle, Ill.
 Miller & Doing, Brooklyn, N. Y. (Ornamental)
 Moncrief Lenoir Mfg. Co., Houston, Tex.
 National Elbow and Fitting Corp., Long Island City, N. Y. (Galvanized, aluminum, copper)
 New Delphos Mfg. Co., Delphos, Ohio. (Galv. steel)
 Northwest Metal Products, Inc., Seattle, Wash. (Galvanized)
 Obdyke, Inc., B. P., Philadelphia, Pa. (Aluminum, copper, galvanized)
 Owens-Corning Fiberglas Corp., New York, N. Y. (Glass fiber)
 Penn Supply & Metal Corp., Philadelphia, Pa. (Galvanized copper & aluminum)
 Perkinson, William J., Chicago, Ill. (Copper & galvanized)
 Permanent Products, Inc., St. Paul, Minn. (Glass fiber)
 Pittsburgh Plate Glass Co., Pittsburgh, Pa.
 Quaker State Metals Co., Lancaster, Pa. (Aluminum and galvanized)

Reeves Steel & Mfg. Co., Div. of Empire-Reeves Steel Corp., Dover, Ohio. (Galvanized steel)
 Republic Steel Corp., Cleveland, O. (Stainless steel).
 Reynolds Metals Co., Richmond, Va. (Aluminum).
 Riffin Metal Products, Kankakee, Ill.
 Royal-Apex Mfg. Co., Inc., Brooklyn, N. Y. (Copper, galvanized, aluminum)
 Ryniker Steel Products Co., Billings, Mont.
 Schecter Bros. Co., Philadelphia, Pa. (Galvanized, copper, aluminum)
 Sheet Metal Mfg. Co., Inc., Brooklyn, N. Y. (Aluminum, copper, galvanized & zinc)
 Sheet Metal Products Co., Peoria, Ill.
 Sioux Steel Co., Sioux Falls, S. Dak. (Galv.)
 Southbridge Roofing Co., Inc., Southbridge, Mass. (Galv. & copper)
 Standard Metal Fabricating Co., Omaha, Nebr. (Galvanized)
 Superior Metal Fabricating Co., Niles, O. (Galvanized)
 Superior Safety Furnace Pipe Co., Detroit, Mich.
 Thor Metal Products Co., Inc., Syracuse, N. Y. (Galv. & copper)
 Tiffin Art Metal Co., Tiffin, Ohio. (Aluminum, stainless steel, copper & galv.)
 Union Sheet Metal Supply Co., Inc., Cleveland, O. (Galvanized)
 Van Noorden Co., E., Boston, Mass.
 Wheeling Corrugating Co., Wheeling, W. Va. (Galvanized steel)
 Wallace Co., William, Metalbestos Div., Belmont, Calif. (Galvanized, aluminum, copper)

GUTTER TOOLS

See Tools, Gutter, Manual

HACK SAWS

See Machines, Sheet Metal Working, Saws, Hack

HAMMERS, PITTSBURGH LOCK CLOSING, ELECTRIC

Black & Decker Mfg. Co., Towson, Md.
 Milwaukee Electric Tool Corp., Milwaukee, Wis.
 Modern Mfg. Co. Inc., Willow Grove, Pa.
 Phillips Drill Co., Michigan City, Ind.
 Port City Machine & Tool Co., Muskegon, Mich.
 Porter-Cable Machine Co., Syracuse, N. Y.
 Skil Corp., Chicago, Ill.
 Thor Power Tool Co., Aurora, Ill.
 Wodack Electric Tool Corp., Chicago, Ill.

HAMMERS, PITTSBURGH LOCK CLOSING, PNEUMATIC

Burgess Thomas Co., Bloomfield, N. J.
 Chicago Pneumatic Tool Co., New York, N. Y.
 Dotmar Industries, Inc., Kalamazoo, Mich.
 Master Power Corp., Subsidiary of Black & Decker Mfg. Co., Solon, O.
 Modern Mfg. Co. Inc., Willow Grove, Pa.
 Nielsen, Inc., E. V., Stamford, Conn.
 Rotor Tool Co., Cleveland, O.
 Skil Corp., Chicago, Ill.
 Superior Pneumatic & Mfg. Inc., Cleveland, O.
 Thor Power Tool Co., Aurora, Ill.

HAND SHEARS

See Tools, Hand

HAND TOOLS

See Tools, Hand

HANGERS AND SUPPORTS, DUCT

See Fastenings, Sheet Metal

HARDWARE, CABINET AND CASING

Handles, locks, etc.

American Insulator Corp., New Freedom, Pa.
Amerock Corp., Rockford, Ill. (Pulls, catches)
Corbin Div., P. & F., American Hardware Corp., New Britain
Conn. (Handles, locks)
Duro-Dyne Corp., Farmingdale, N. Y. (Door buckles and door
handles)
Fisher Brass Foundry and Mfg., Los Angeles, Calif. (Handles)
Hartwell Co., Los Angeles, Calif. (Latches and hinges)
Lodding Inc., Worcester, Mass. (Handles)
National Lock Co., Rockford, Ill. (Handles, locks, piano
hinges, crating bolts, catches)
Soss Mfg. Co., Detroit, Mich. (Invisible hinges)
Star Stainless Screw Co., Paterson, N. J. (Piano hinges)

HARDWARE, DAMPER

Adams Co., The, Dubuque, Ia.
Duro-Dyne Corp., Farmingdale, N. Y.
Elgen Mfg. Corp., Long Island City, N. Y.
R.I.N.C.O., Altadena, Calif.
Ventfabrics, Inc., Chicago, Ill.
Young Regulator Co., Cleveland, O.

HARDWARE, DUCT

Corbman Bros., Inc., Philadelphia, Pa.
Fossum Damper Control Co., St. Paul, Minn.
Hart & Cooley Mfg. Co., Holland, Mich. (Casing clips)
Hartwell Co., Los Angeles, Calif.
Ventfabrics, Inc., Chicago, Ill.

HEATERS, AIR, DIRECT FIRED, COAL

For Furnaces for Central Plant Installation EXCLUSIVELY for Duct
Distribution of the Air, See the Listing Under Furnaces

Campbell Co., E. K., Kansas City, Mo.
Campbell Heating Co., Des Moines, Ia.
MaGirl Foundry & Furnace Co., Bloomington, Ill.
National Heater Co., Inc., St. Paul, Minn.

HEATERS, AIR, DIRECT FIRED, COMBINATION GAS AND OIL

For Furnaces for Central Plant Installation EXCLUSIVELY for Duct
Distribution of the Air, See the Listing Under Furnaces

Air Conditioning Engineering Co., Cambridge, Mass.
Arkos Mfg. Co., Detroit, Mich.
Campbell Co., E. K., Kansas City, Mo.
Campbell Heating Co., Des Moines, Ia.
Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse,
N. Y.
Dravo Corp., Machinery Div., Pittsburgh, Pa.
Drying Systems Co., Chicago, Ill.
Inland Heater Corp., St. Paul, Minn.
Jackson & Church Div., York-Shipley, Inc., York, Pa.
Lennox Industries Inc., Marshalltown, Ia.
MaGirl Foundry & Furnace Co., Bloomington, Ill.
National Heater Co., Inc., St. Paul, Minn.
Wanson Corp., The, Lewistown, Pa.

HEATERS, AIR, DIRECT FIRED, GAS, CENTRIFUGAL FAN TYPE

For Furnaces for Central Plant Installation EXCLUSIVELY for Duct
Distribution of the Air, See the Listing Under Furnaces

Air Conditioning Engineering Co., Cambridge, Mass.
American Foundry & Furnace Co., Bloomington, Ill.
American Furnace Co., St. Louis, Mo.
Arkos Mfg. Co., Detroit, Mich.
Auburn Burner Co., Edgerton, O.
Campbell Co., E. K., Kansas City, Mo.
Campbell Heating Co., Des Moines, Ia.
Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse,
N. Y.

Chicago Steel Furnace Co., Elk Grove, Ill.
DeVilbiss Co., The, Metal Fabricators Div., Detroit, Mich.
Dravo Corp., Pittsburgh, Pa.
Drying Systems Co., Chicago, Ill.
Hastings Air Conditioning Co., Inc., Hastings, Neb.
Hayes Furnace Mfg. & Supply Co., Los Angeles, Calif.
Humphrey Div., Arkla Air Conditioning Corp., Little Rock, Ark.
Inland Heater Corp., St. Paul, Minn.
Jackson & Church Div., York-Shipley, Inc., York, Pa.
Johnson Heater Corp., Chelsea, Mass.
Kilbury Mfg. Co., Inc., Lawndale, Calif.
Lennox Industries Inc., Marshalltown, Ia.
MaGirl Foundry & Furnace Co., Bloomington, Ill.
Mueller Climatrol, Milwaukee, Wis.
National Heater Co., Inc., St. Paul, Minn.
Norman Products Co., Columbus, O.
OverHead Heaters, Inc., Detroit, Mich.
Payne Co., The, La Puente, Calif.
Reznor Mfg. Co., Mercer, Pa.
Rockwell Co., W. S., Fairfield, Conn.
Tuck-Aire Furnace Co., San Francisco, Calif.
U. S. Air Conditioning Corp., Delaware, O.
Utility Appliance Corp., Los Angeles, Calif.
Wanson Corp., The, Lewistown, Pa.
Zink Co., John, Tulsa, Okla.

HEATERS, AIR, DIRECT FIRED, GAS, PORTABLE, FOR SPACE HEATING

For Furnaces for Central Plant Installation EXCLUSIVELY for Duct
Distribution of the Air, See the Listing Under Furnaces

Aeroil Products Co., Inc., South Hackensack, N. J. (125,000-
500,000 Btu)
American Air Filter Co., Inc., Louisville, Ky.
Bica Co., Girard, O. (30,000-85,000 Btu)
Campbell Heating Co., Des Moines, Ia. (200,000-1,500,000 Btu)
Chicago Steel Furnace Co., Elk Grove, Ill. (120,000-2,500,000
Btu)
Insto-Gas Corp., Detroit, Mich. (Up to 125,000 Btu)
Johnson Gas Appliance Co., Cedar Rapids, Ia.
Mammoth Industries Inc., Minneapolis, Minn. (300,000-1,000-
000 Btu)
National Heater Co., Inc., St. Paul, Minn. (180,000-3,000,000
Btu)
Stow Mfg. Co., Binghamton, N. Y.

HEATERS, AIR, DIRECT FIRED, OIL, CENTRIFUGAL FAN TYPE

For Furnaces for Central Plant Installation EXCLUSIVELY for Duct
Distribution of the Air, See the Listing Under Furnaces

Air Conditioning Engineering Co., Cambridge, Mass.
Arkos Mfg. Co., Detroit, Mich.
Campbell Heating Co., Des Moines, Ia.
Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse,
N. Y.
Chicago Steel Furnace Co., Elk Grove, Ill.
Dravo Corp., Pittsburgh, Pa.
Drying Systems Co., Chicago, Ill.
Inland Heater Corp., St. Paul, Minn.
Jackson & Church Div., York-Shipley, Inc., York, Pa.
Lennox Industries Inc., Marshalltown, Ia.
MaGirl Foundry & Furnace Co., Bloomington, Ill.
Mammoth Industries Inc., Minneapolis, Minn.
Mueller Climatrol, Milwaukee, Wis.
OverHead Heaters, Inc., Detroit, Mich.
Wanson Corp., The, Lewistown, Pa.

HEATERS, AIR, DIRECT FIRED, OIL, FLOOR TYPE

For Furnaces for Central Plant Installation EXCLUSIVELY for Duct
Distribution of the Air, See the Listing Under Furnaces

Air Conditioning Engineering Co., Cambridge, Mass.
American Foundry & Furnace Co., Bloomington, Ill.
Arkos Mfg. Co., Detroit, Mich.
Campbell Co., E. K., Kansas City, Mo.
Campbell Heating Co., Des Moines, Ia.
Chicago Steel Furnace Co., Elk Grove, Ill.
Dravo Corp., Machinery Div., Pittsburgh, Pa.

Drying Systems Co., Chicago, Ill.
Gilbert & Barker Mfg. Co., West Springfield, Mass.
 Inland Heater Corp., St. Paul, Minn.
 Jackson & Church Div., York-Shipley, Inc., York, Pa.
Johnson Heater Corp., Chelsea, Mass.
 Lennox Industries Inc., Marshalltown, Ia.
MaGirl Foundry & Furnace Co., Bloomington, Ill.
 Mammoth Industries Inc., Minneapolis, Minn.
 National Heater Co., Inc., St. Paul, Minn.
 Siebring Mfg. Co., George, Ia.
 Wanson Corp., The, Lewistown, Pa.
Williams Div., Eureka Williams Corp., Bloomington, Ill.

HEATERS, AIR, DIRECT FIRED, OIL, PORTABLE, FOR SPACE HEATING

For Furnaces for Central Plant Installation EXCLUSIVELY for Duct Distribution of the Air, See the Listing Under Furnaces

Acme Oil Burner Co., Inc., Cedar Rapids, Ia.
 Air Conditioning Engineering Co., Cambridge, Mass. (200,000-635,000 Btu)
 American Foundry & Furnace Co., Bloomington, Ill. 400,000-2,000,000 Btu)
 Arkos Mfg. Co., Detroit, Mich.
 Auburn Burner Co., Edgerton, O.
Campbell Heating Co., Des Moines, Ia. (Up to 3,150,000 Btu)
 Chicago Steel Furnace Co., Elk Grove, Ill. (120,000-2,500,000 Btu)
 Emglo Products Corp., Johnstown, Pa.
 Interstate Heater Mfg. Co., Denver, Colo. (80,000-180,000 Btu)
 Knickerbocker Products Co., Dayton, O.
 Mammoth Industries Inc., Minneapolis, Minn. (300,000-1,000,000 Btu)
Master Vibrator Co., Dayton, O.
 National Heater Co., Inc., St. Paul, Minn. (400,000-1,800,000 Btu)
 Nelson Products, Herman, American Air Filter Co., Inc., Louisville, Ky.
 Quiet Automatic Oil Burner Corp., Newark, N. J.
 Siebring Mfg. Co., George, Ia.
 Silent Glow Oil Burner Co., Hartford, Conn.
 Stow Mfg. Co., Binghamton, N. Y.
 Tjernlund Mfg. Co., St. Paul, Minn.
 Wood Co., John, Heater & Tank Div., Conshohocken, Pa.
 Wood Enterprises, Inc., Dayton, O.

HEATERS, AIR, DIRECT FIRED, OIL, SUSPENDED TYPE

For Furnaces for Central Plant Installation EXCLUSIVELY for Duct Distribution of the Air, See the Listing Under Furnaces

Air Conditioning Engineering Co., Cambridge, Mass.
 American Foundry & Furnace Co., Bloomington, Ill.
 American Furnace Co., St. Louis, Mo.
 Arkos Mfg. Co., Detroit, Mich.
 Auburn Burner Co., Edgerton, O.
Campbell Co., E. K., Kansas City, Mo.
 Campbell Heating Co., Des Moines, Ia.
 Chicago Steel Furnace Co., Elk Grove, Ill.
Cox Mfg. Co., Ridgeville, Ind.
Dravo Corp., Machinery Div., Pittsburgh, Pa.
Gilbert & Barker Mfg. Co., West Springfield, Mass.
 Inland Heater Corp., St. Paul, Minn.
 Jackson & Church Div., York-Shipley, Inc., York, Pa.
 Mammoth Industries Inc., Minneapolis, Minn.
Mueller Climatrol, Milwaukee, Wis.
 National Heater Co., Inc., St. Paul, Minn.
OverHead Heaters, Inc., Detroit, Mich.
 Quiet Automatic Oil Burner Corp., Newark, N. J.
Williams Oil-O-Matic Div., Eureka Williams Corp., Bloomington, Ill.

HEATERS AND RADIATORS, ELECTRIC

Acme Electric Heating Co., Boston, Mass.
 Ampere Industries, Newark, N. J.
 Fasco Industries, Inc., Rochester, N. Y.
 Insto-Gas Corp., Detroit, Mich.
Spartan Electric Radiator Corp., Maspeth, N. Y.

HEATERS, DUCT, ELECTRIC (FOR BRANCH DUCTS ONLY)

Williamson Co., The, Cincinnati, O.
 York Div. of Borg-Warner Corp., York, Pa.

HEATERS, DUCT, ELECTRIC (FOR TRUNK DUCTS ONLY)

American-Standard Air Conditioning Div., New York, N. Y.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Electric Heaters, Inc., Knoxville, Tenn.
 Electromode Div. of Commercial Controls Corp., Rochester, N. Y.
 Heat Controller, Inc., Jackson, Mich.
 Industrial Engineering and Equipment Co., Brentwood, Mo.
 Mueller Climatrol, Milwaukee, Wis.
 Muncie Gear Works, Cordele, Ga.
 Tuttle & Co., H. W., Tecumseh, Mich.
 Vulcan Electric Co., Div. Consolidated Electric Lamp Co., Inc., Danvers, Mass.
 Waage Electric, Inc., Kenilworth, N. J.
 Wesix Electric Heater Co., San Francisco, Calif.
 Wesco Furnace Div., Northwest Foundry & Furnace Co., Portland, Ore.
 Wiegand Co., Edwin L., Pittsburgh, Pa.
 Wilson Electric Furnaces, Rossville, Ga.

HEATERS, DUCT, GAS

Allan Engineering Co., Dallas, Tex.
 American-Standard Industrial Div., Detroit, Mich.
 Bryant Mfg. Co., Indianapolis, Ind.
Burnham Corp., Irvington, N. Y.
 Campbell Heating Co., Des Moines, Ia.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Chicago Steel Furnace Co., Elk Grove, Ill.
Dravo Corp., Machinery Div., Pittsburgh, Pa.
 Great National Air Conditioning Corp., Oklahoma City, Okla.
 Hastings Air Conditioning Co., Inc., Hastings, Nebr.
Hastings Air Control, Inc., Omaha, Nebr.
Hayes Furnace Mfg. & Supply Co., Los Angeles, Calif.
Henry Furnace Co., Medina, O.
 Humphrey Div., Arkla Air Conditioning Corp., Little Rock, Ark.
 Inland Heater Corp., St. Paul, Minn.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Lennox Industries Inc., Marshalltown, Ia.
 Mammoth Industries Inc., Minneapolis, Minn.
Modine Mfg. Co., Racine, Wis.
 Mueller Climatrol, Milwaukee, Wis.
 National Heater Co., Inc., St. Paul, Minn.
 Nesbitt, Inc., John J., Philadelphia, Pa.
 Norman Products Co., Columbus, O.
Olsen Mfg. Co., The C. A., Elyria, O.
 OverHead Heaters, Inc., Detroit, Mich.
 Payne Co., The, La Puente, Calif.
 Peerless Mfg. Div., Dover Corp., Louisville, Ky.
Reznor Mfg. Co., Mercer, Pa.
Royal Jet, Inc., Alhambra, Calif.
 Skinner Heating & Ventilating Co. Div. Young Sales Corp., St. Louis, Mo.
 Tuck-Aire Furnace Co., San Francisco, Calif.
 U. S. Air Conditioning Corp., Delaware, O.
Utility Appliance Corp., Los Angeles, Calif.
 Wing Mfg. Div., L. J., Aero Supply Mfg. Co. Inc., Linden, N. J.

HEATERS, DUCT, OIL

Air Conditioning Engineering Co., Cambridge, Mass.
 Campbell Heating Co., Des Moines, Ia.
 Chicago Steel Furnace Co., Elk Grove, Ill.
 Inland Heater Corp., St. Paul, Minn.
 Mammoth Industries Inc., Minneapolis, Minn.
 National Heater Co., Inc., St. Paul, Minn.
Overhead Heaters, Inc., Detroit, Mich.

HEATERS, ELECTRIC, BASEBOARD

Albion Div., McGraw-Edison Co., Albion, Mich.
 Allied Precision Industries, Inc., Geneva, Ill.

Ampere Industries, Newark, N. J.
 Argo Industries, Inc., Hartford, Conn.
 Arvin Industries, Inc., Columbus, Ind.
 Berko Electric Mfg. Corp., Jamaica, N. Y.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Cavalier Corp., Electric Heating Div., Chattanooga, Tenn.
 Ceilheat, Inc., Knoxville, Tenn.
 Coolerator Div., McGraw-Edison Co., Albion, Mich.
 Edwards Engineering Corp., Pompton Plains, N. J.
 Electriling Corp., Indianapolis, Ind.
 Electromode Div. of Commercial Controls Corp., Rochester, N. Y.
 Electro Ray Mfg. Co., Vancouver, Wash.
 Electrovector, Inc., Brooklyn, N. Y.
 Embassy Steel Products, Inc., Brooklyn, N. Y.
 Emerson Electric Mfg. Co., St. Louis, Mo.
 Fasco Industries, Inc., Rochester, N. Y.
 General Electric Co., Wiring Devices Dept., Providence, R. I.
 Hotpoint Div., General Electric Co., Chicago, Ill.
 Hunter Div., Robbins & Myers, Inc., Memphis, Tenn.
 King Electrical Mfg. Co., Seattle, Wash.
 Markel Electric Products, Inc., Buffalo, N. Y.
 Martin Stamping & Stove Co., Huntsville, Ala.
 Meier Electric, Indianapolis, Ind.
 Modernheat Cable Corp., Kingsport, Tenn.
 Radiant Electric Heat Co., Centerville, Iowa
 Ramco Manufacturing and Engineering, Portland, Ore.
 Roberson Inc., Seattle, Wash.
 Sair Corp., Cleveland, O.
 Seaboard Products Corp., Electric Heating Div., Newark, N. J.
 Spartan Electric Radiator Corp., Maspeth, N. Y.
 Sundial Electric Co., Richmond Hill, N. Y.
 Sun-Tron Corp., Chicago, Ill.
 Sunwarm, Inc., Kingsport, Tenn.
 Swan Mfg. Co., Vancouver, Wash.
 Tennessee Plastics, Inc., Johnson City, Tenn.
 Thermador Electric Mfg. Co., Div. of Norris Thermador Corp., Los Angeles, Calif.
 Vulcan Electric Co., Div. Consolidated Electric Lamp Co., Inc., Danvers, Mass.
 Vulcan Radiator Co., Hartford, Conn.
 Wesix Electric Heater Co., San Francisco, Calif.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Wiegand Co., Edwin L., Pittsburgh, Pa.
 Zell-Aire Corp., Reading, Pa.

HEATERS, ELECTRIC, FLOOR

Ceilheat, Inc., Knoxville, Tenn.
 Electromode Div. of Commercial Controls Corp., Rochester, N. Y.
 Electrovector, Inc., Brooklyn, N. Y.
 Martin Stamping & Stove Co., Huntsville, Ala.
 Seaboard Products Corp., Electric Heating Div., Newark, N. J.
 Wesix Electric Heater Co., San Francisco, Calif.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Wiegand Co., Edwin L., Pittsburgh, Pa.

HEATERS, ELECTRIC, WALL

Acme Electric Heating Co., Boston, Mass.
 Albion Div., McGraw-Edison Co., Albion, Mich.
 Allied Precision Industries, Inc., Geneva, Ill.
 Ampere Industries, Newark, N. J.
 Arvin Industries, Inc., Columbus, Ind.
 Berko Electric Mfg. Corp., Jamaica, N. Y.
 Broan Mfg. Co., Inc., Hartford, Wis.
 Can Arm Corp., Champlain, N. Y.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Cavalier Corp., Electric Heating Div., Chattanooga, Tenn.
 Ceilheat, Inc., Knoxville, Tenn.
 Circle-Air Industries, Inc., Brooklyn, N. Y.
 Continental Radiant Glass Heating Corp., New York, N. Y.
 Dixie Radiant Electric Heat Corp., Atlanta, Ga.
 Electrend Products Corp., Subsidiary of St. Joe Machines, Inc., St. Joseph, Mich.
 Electromode Div. of Commercial Controls Corp., Rochester, N. Y.
 Electrovector, Inc., Brooklyn, N. Y.
 Emerson Electric Mfg. Co., St. Louis, Mo.
 Everwarm, Inc., Knoxville, Tenn.
 Fasco Industries, Inc., Rochester, N. Y.

General Electric Co., Wiring Devices Dept., Providence, R. I.
 Hanovia Lamp Div., Engelhard Hanovia, Inc., Newark, N. J.
 Heatmore, Inc., Brooklyn, N. Y.
 Hunter Div., Robbins & Myers, Inc., Memphis, Tenn.
 Hynes Electric Heating Co., Mountainside, N. J.
 Markel Electric Products, Inc., Buffalo, N. Y.
 Martin Stamping & Stove Co., Huntsville, Ala.
 Matthews Electric Heater Mfg. Co., Albertville, Ala.
 Meier Electric, Indianapolis, Ind.
 Modernheat Cable Corp., Kingsport, Tenn.
 Seaboard Products Corp., Electric Heating Div., Newark, N. J.
 Sun-Tron Corp., Chicago, Ill.
 Swan Mfg. Co., Vancouver, Wash.
 Tennessee Plastics, Inc., Johnson City, Tenn.
 Thermador Electric Mfg. Co., Div. of Norris-Thermador Corp., Los Angeles, Calif.
 Trade-Wind Div., Robbins & Myers, Inc., Pico Rivera, Calif.
 Wesix Electric Heater Co., San Francisco, Calif.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Wiegand Co., Edwin L., Pittsburgh, Pa.
 Zell-Aire Corp., Reading, Pa.

HEATERS, SUSPENDED, RADIANT, GAS FIRED

Panelbloc Div., Bettcher Mfg. Co., Cleveland, O.
 Perfection Div., Hupp Corp., Cleveland, O.
 Roberts-Gordon Appliance Co., Buffalo, N. Y.
 Solarflo Co., Glendora, Calif.

HEATERS, UNIT, ELECTRIC HEATING ELEMENT

Berko Electric Mfg. Corp., Jamaica, N. Y.
 Buffalo Forge Co., Buffalo, N. Y.
 Electromode Div. of Commercial Controls Corp., Rochester, N. Y.
 Iig Electric Ventilating Co., Chicago, Ill.
 Markel Electric Products, Inc., Buffalo, N. Y.
 Modine Mfg. Co., Racine, Wis.
 Sunwarm, Inc., Kingsport, Tenn.
 Wesix Electric Heater Co., San Francisco, Calif.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Wiegand Co., Edwin L., Pittsburgh, Pa.
 Wing Mfg. Div., L. J., Aero Supply Mfg. Co., Inc., Linden, N. J.
 Zell-Aire Corp., Reading, Pa.

HEATERS, UNIT, FOR INSTALLATIONS REQUIRING DUCTWORK

See Furnaces, Forced Warm Air

HEATERS, UNIT, GAS, CENTRIFUGAL BLOWER TYPE

American-Standard Industrial Div., Detroit, Mich.
 Gaffers & Sattler, Los Angeles, Calif.
 Grinnell Co., Inc., Providence, R. I.
 Hastings Air Control, Inc., Omaha, Nebr.
 Modine Mfg. Co., Racine, Wis.
 Nesbitt, Inc., John J., Philadelphia, Pa.
 Norman Products Co., Columbus, O.
 Westinghouse Electric Corp., Sturtevant Div., Hyde Park, Boston, Mass.

HEATERS, UNIT, GAS, PROPELLER FAN TYPE

Allan Engineering Co., Dallas, Tex.
 American Furnace Co., St. Louis, Mo.
 American-Standard Industrial Div., Detroit, Mich.
 Autogas Co., Bellwood, Ill.
 Bryant Mfg. Co., Indianapolis, Ind.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Coraire Heater Corp., Cleveland, O.
 Day & Night Mfg. Co., La Puente, Calif.
 Dravo Corp., Machinery Div., Pittsburgh, Pa.
 Folders Corp., Maspeth, N. Y.
 Gaffers & Sattler, Los Angeles, Calif.

Grinnell Co., Inc., Providence, R. I.
Hastings Air Conditioning Co., Hastings, Nebr.
Hastings Air Control, Inc., Omaha, Nebr.
Henry Furnace Co., The, Medina, O.
Humphrey Div., Arkla Air Conditioning Corp., Little Rock, Ark.
Ilg Electric Ventilating Co., Chicago, Ill.
Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
Johnson Furnace Co., The, Cleveland, O.
Kisco Boiler & Engineering Co., St. Louis, Mo.
Lundt, Inc., Ernest C., Little Falls, N. J.
Modine Mfg. Co., Racine, Wis.
Mueller Climatrol, Milwaukee, Wis.
Nelson Products, Herman, American Air Filter Co., Inc., Louisville, Ky.
Nesbitt, Inc., John J., Philadelphia, Pa.
Norman Products Co., Columbus, O.
Olsen Mfg. Co., The C. A., Elyria, O.
Payne Co., The, La Puente, Calif.
Peerless Mfg. Div., Dover Corp., Louisville, Ky.
Reznor Mfg. Co., Mercer, Pa.
Roberts-Gordon Appliance Corp., Buffalo, N. Y.
Rybolt Heater Co., Ashland, O.
Temco, Inc., Nashville, Tenn.
Trane Co., The, La Crosse, Wis.
Tuck-Aire Furnace Co., San Francisco, Calif.
U. S. Air Conditioning Corp., Delaware, O.
Vacuum Gas Burner Co., Olean, N. Y.
Webster & Co., Warren, Camden, N. J.
Westinghouse Electric Corp., Sturtevant Div., Hyde Park, Boston, Mass.
Wing Mfg. Div., L. J., Aero Supply Mfg. Co. Inc., Linden, N. J.
Worthington Corp., Harrison, N. J.
Young Radiator Co., Racine, Wis.
Zink Co., John, Tulsa, Okla.

HEATERS, UNIT, OIL, PROPELLER FAN TYPE

Interstate Heater Mfg. Co., Denver, Colo.

HEATERS, VENTILATION MAKEUP AIR UNITS

See Units, Makeup Air, Heating and Ventilating, Horizontal Package Type

HEATERS, WATER, DOMESTIC, ELECTRIC

American Radiator & Standard Sanitary Corp., Plumbing and Heating Div., New York, N. Y.
Bard Mfg. Co., Bryan, O.
Bastian-Morley Co., Inc., La Porte, Ind.
Bock Corp., Madison, Wis.
Bowen Water Heater Div., Handling Equipment Mfg. Corp., Wixom, Mich.
Buckeye Water Heater Co., Cleveland, O.
Clayton & Lambert Mfg. Co., Louisville, Ky.
Cleveland Heater Co., Cleveland, Ohio.
Coleman Co., Inc., Wichita, Kans.
Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
Day & Night Mfg. Co., La Puente, Calif.
Dowagiac Steel Furnace Co., Dowagiac, Mich.
Fairbanks, Morse & Co., Chicago, Ill.
Frigidaire Div., General Motors Corp., Dayton, Ohio.
General Fittings Co., Providence, R. I.
Hotstream Heater Co., Cleveland, Ohio.
Hynes & Cox Electric Corp., Burnt Hills, N. Y.
Jackson Mfg. Co., Inc., W. L., Chattanooga, Tenn.
Kelvinator Div., American Motors Corp., Detroit, Mich.
Koven & Bro., Inc., L. O., Dover, N. J.
Lawson Mfg. Co., Pittsburgh, Pa.
Little Burner Co., Inc., H. C., San Rafael, Calif.
Luxra Co., Atchison, Kans.
Mor-Flo Heater Corp., Cleveland, O.
National Appliances, Inc., Pittsburgh, Pa.
National Steel Construction Co., Seattle, Wash.
Pennsylvania-Bradford Appliance Corp., Philadelphia, Pa.
Perfection Div., Hupp Corp., Cleveland, O.
Pioneer Water Heater Corp., Los Angeles, Calif.
Precision Parts Corp., Nashville, Tenn.
Rheem Mfg. Co., Chicago, Ill.
Sands Mfg. Co., Cleveland, O.

Smith Corp., A. O., Permaglas Div., Kankakee, Ill.
Spickler Co., Inc., R. D. Mamaroneck, N. Y.
State Stove and Mfg. Co., Nashville, Tenn.
Thermador Electrical Mfg. Co. Div. of Norris-Thermador Corp., Los Angeles, Calif.
Wagoner Corp., Nashville, Tenn.
Wayne Home Equipment Co., Inc., Fort Wayne, Ind.
Wesix Electric Heater Co., San Francisco, Calif.
White Products Corp., Middleville, Mich.
Wood Co., John, Conshohocken, Pa.

HEATERS, WATER, DOMESTIC, GAS FIRED (ALSO LP GAS)

Aldrich Co., Wyoming, Ill.
American Appliance Mfg. Corp., Santa Monica, Calif.
American Radiator & Standard Sanitary Corp., Plumbing and Heating Div., New York, N. Y.
American & Southern Corp., Nashville, Tenn.
Bard Mfg. Co., Bryan, O.
Bastian-Morley Co., Inc., LaPorte, Ind.
Bock Corp., Madison, Wis.
Bowen Water Heater Div., Handling Equipment Mfg. Corp Wixom, Mich.
Bryant Mfg. Co., Indianapolis, Ind.
Buckeye Water Heater Co., Cleveland, Ohio.
Cirkla Products Div. Folsom Co., Inc., Dallas, Texas.
Clayton & Lambert Mfg. Co., Louisville, Ky.
Cleveland Heater Co., Cleveland, Ohio.
Coleman Co., Inc., Wichita, Kans.
Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
Day & Night Mfg. Co., La Puente, Calif.
Dearborn Stove Co., Dallas, Tex.
Delco Appliance Div. General Motors Corp., Rochester, N. Y.
EverHot Heater Div. of Temprite Products Corp., Detroit, Mich.
Fairbanks, Morse & Co., Chicago, Ill.
Gaffers & Sattler, Los Angeles, Calif.
Handley-Brown Co., Jackson, Mich. (With circulating fan for augmenting central heating systems)
Harrison Sheet Steel Co., Chicago, Ill.
Hedges Mfg. Co., Inc., M. M., Chattanooga, Tenn.
Hi-Qua Mfg. Co., Inc., Philadelphia, Pa.
Holly-General Co., Pasadena, Calif.
Hotstream Heater Co., Cleveland, Ohio.
Hoyt Heater Co. of No. Calif., Oakland, Calif.
Jackson Mfg. Co., Inc., W. L., Chattanooga, Tenn.
Koven & Bro., Inc., L. O., Dover, N. J.
Lawson Mfg. Co., Pittsburgh, Pa.
Little Burner Co., Inc., H. C., San Rafael, Calif.
Lovekin Water Heater Co., Philadelphia, Pa.
Luxra Co., Atchison, Kans.
McDaniel Mfg. Co., Inc., Dallas, Texas.
Mor-Flo Heater Corp., Cleveland, O.
Mustee & Sons, Inc., E. L., Cleveland, O.
National Appliances, Inc., Pittsburgh, Pa.
National Steel Construction Co., Los Angeles, Calif.
Pacific Water Heater Corp., San Gabriel, Calif.
Pennsylvania-Bradford Appliance Corp., Philadelphia, Pa.
Perfection Div., Hupp Corp., Cleveland, O.
Pioneer Water Heater Corp., Los Angeles, Calif.
Queen Products Div., King-Seely Corp., Albert Lea, Minn.
Radiant Utilities Corp., Brooklyn, N. Y.
Ray Oil Burner Co., San Francisco, Calif.
Republic Heater Corp., Huntington Park, Calif.
Rheem Mfg. Co., Chicago, Ill.
Ruud Mfg. Co., Kalamazoo, Mich.
Sands Mfg. Co., Cleveland, O.
Smith Corp., A. O., Permaglas Div., Kankakee, Ill.
Southern Heater Corp., Compton, Calif.
Spickler Co., Inc., R. D., Mamaroneck, N. Y.
State Stove and Mfg. Co., Nashville, Tenn.
SuperBO Mfg. Co., Los Angeles, Calif.
Switson Industries Ltd., Welland, Ont., Canada
Trageser Copper Works, Inc., Jamaica, N. Y.
Wagoner Corp., Nashville, Tenn.
Wayne Home Equipment Co., Inc., Fort Wayne, Ind.
White Products Corp., Middleville, Mich.
Wood Co., John, Conshohocken, Pa.

HEATERS, WATER, DOMESTIC, OIL FIRED

Aldrich Co., Wyoming, Ill.
Allen Mfg. Co., Inc., Nashville, Tenn.

American Mohawk Div., Burner Mfg. Corp. of America, New York, N. Y.
 Bock Corp., Madison, Wis.
 Buckeye Water Heater Co., Cleveland, O.
 Carlin Co., The, Wetherfield, Conn.
 Coleman Co., Inc., Wichita, Kans.
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Eckhart Mfg. Co., Inc., Union, N. J.
 Electrol Burner Mfg. Co., Rutherford, N. J.
 Gilmore & Co., Jackson G., Columbus, Ohio.
 Hotstream Heater Co., Cleveland, Ohio.
 Iron Fireman Mfg. Co., Cleveland, O.
 Johnson Co., S. T., Oakland, Calif. & Philadelphia, Pa.
 Koven & Bro., Inc., L. O., Dover, N. J.
 Kresno-Stamm Mfg. Co., New York, N. Y.
 Penn Boiler Div., Pebbco Industries Inc., Lancaster, Pa.
 Petro Div., Iron Fireman Mfg. Co., Cleveland, O.
 Preferred Utilities Mfg. Corp., New York, N. Y.
 Queen Products Div., King-Seeley Corp., Albert Lea, Minn.
 Quiet Automatic Burner Corp., Newark, N. J.
 Quiet-Heat Div., Burner Mfg. Corp. of America, New York, N. Y.
 Radiant Utilities Corp., Brooklyn, N. Y.
 Ray Oil Burner Co., San Francisco, Calif.
 Reif-Rexoil, Inc., Buffalo, N. Y.
 Republic Products Co., Philadelphia, Pa.
 Rheem Mfg. Co., Chicago, Ill.
 Silent Automatic Products, Cleveland, O.
 Toridheat Div., Cleveland Steel Products Corp., Cleveland, O.
 Viking Mfg. Corp., Cleveland, Ohio.
 Volcano Burner Mfg. Inc., New York, N. Y.
 Wood Co., John, Heater & Tank Div., Conshohocken, Pa.

HEATERS, WATER, DOMESTIC, STOKER FIRED

Gehl Bros. Mfg. Co., West Bend, Wis.

HEATING COILS

See Coils, Heating

HEAT PUMPS

See Unitary Air Conditioners, Year 'Round, Heat Pump

HEAT PUMP SWITCHING VALVES

See Valves, Switching, Heat Pump

HEAT RECOVERERS

See Recoverers, Heat, Smoke Pipe

HEAT STORAGE UNITS

See Units, Heat Storage, Furnace

HIGH VELOCITY AIR SYSTEM PIPE

See Ducts, Spiral, Welded

HIGH VELOCITY MIXING UNITS, SOUND AND VOLUME CONTROL, FOR DOUBLE DUCT HIGH VELOCITY AIR CONDITIONING SYSTEMS

See Units, Mixing, Sound and Volume Control, for Double Duct High Velocity Air Conditioning Systems

HOISTS, HAND AND POWER

American Engineering Co., Div. of United Industrial Corp., Philadelphia, Pa. (Power, electric)
 American Gage & Mfg. Co., Dayton, O. (Hand)
 American MonoRail Co., Cleveland, Ohio. (Electric)
 Bridgeport Chain & Mfg. Co., Bridgeport, Conn.

Chester Hoist Div., National Screw & Mfg. Co., Lisbon, O. (Hand & power)
 Chicago Pneumatic Tool Co., New York, N. Y. (Power)
 Chisholm-Moore Hoist Div., Columbus McKinnon Chain Corp., Tonawanda, N. Y.
 Cleveland Crane & Engineering Co., Wickliffe, Ohio. (Hand & electric)
 Cullen-Friedstedt Co., Chicago, Ill. (Power sheet lifter)
 Detroit Hoist & Machine Co., Detroit, Mich.
 Downs Crane & Hoist Co., Los Angeles, Calif. (Power)
 Euclid Crane & Hoist Co., Euclid, Ohio. (Electric)
 Gardner-Denver Co., Quincy, Ill. (Power)
 Grand Specialties Co., Chicago, Ill.
 Harnischfeger Corp., Milwaukee, Wis. (Electric & hand)
 Hastings Air Control, Inc., Omaha, Nebr.
 Industrial Brownhoist Corp., Bay City, Mich.
 Ingersoll-Rand Co., New York, N. Y. (Compressed air powered)
 Lantz Mfg. Co., Inc., Valparaiso, Ind. (For sheet metal ducts only, hand operated)
 Lug-All Co., Haverford, Pa.
 McCollum Hoist & Mfg. Co., Downers Grove, Ill.
 Multiple Corp., Dayton, O.
 Ohio Hoist Mfg. Co., Lisbon, O. (Hand & power)
 Philadelphia Hoist Div. of Industrial Enterprises, Inc., Doylestown, Pa.
 Reading Crane & Hoist Corp., Reading, Pa. (Hand & power, electric)
 Robbins & Myers, Inc., Springfield, Ohio. (Hand & power)
 Shepard Niles Crane & Hoist Corp., Montour Falls, N. Y. (Pneumatic, electric, manual)
 Stephens-Adamson Mfg. Co., Aurora, Ill.
 Thor Power Tool Co., Aurora, Ill. (Pneumatic)
 Wright Hoist Div. American Chain & Cable Co., York, Pa. (Electric)
 Yale & Towne Mfg. Co., Philadelphia, Pa.

HOODS, DRAFT, GAS

See Draft Diverters, Gas Heater

HOODS, FUME DISPOSAL, CORROSION RESISTANT

Acme-Fisher Div., Broadway Rubber Corp., Louisville, Ky.
 Argo Plastic Products, Cleveland, O.
 Ceilcote, Inc., Cleveland, O.
 Colonial Plastics Mfg. Co., Subsidiary Van Dorn Iron Works Co., Cleveland, O.
 Corite-Reynolds Corp., Des Plaines, Ill. (Plastic)
 Drying Systems Co., Chicago, Ill.
 Du Verre, Inc., Buffalo, N. Y. (Plastic)
 Electro-Chemical Products Corp., Cleveland, O.
 Haveg Corp., Wilmington, Del.
 Heil Process Equipment Corp., Cleveland, O.
 Industrial Plastic Fabricators, Inc., Norwood, Mass.
 Kaykor Industries, Inc., Yardville, N. J.
 Laminated Sheet Products Corp., Norwood, Mass.
 S & C Mfg. Co., Cincinnati, O.
 South Bend Air Products, Inc., South Bend, Ind. (Monel, stainless steel, PVC, etc.)

HOODS, VENTILATING, FOR KITCHENS

Air Control Products, Inc., Coopersville, Mich.
 Berns Air King Corp., Chicago, Ill.
 Carey Mfg. Co., Philip, Cincinnati, O.
 Chelsea Fan & Blower Co., Inc. Plainfield, N. J.
 Emerson Electric Mfg. Co., St. Louis, Mo.
 asco Industries, Inc., Rochester, N. Y.
 Marvin Electric Mfg. Co., Los Angeles, Calif.
 Morrison Products, Inc., Cleveland, O.
 NuTone, Inc., Cincinnati, O.
 Stanthony Corp., Los Angeles, Calif. (Metal)
 Stewart Industries, Inc., Indianapolis, Ind.
 Trade-Wind Div., Robbins & Myers, Inc., Pico Rivera, Calif. (Metal)
 United Sheet Metal Co., Inc., Columbus, O.
 Universal Blower Co., Birmingham, Mich.
 Ventrola Mfg. Co., Owosso, Mich.

HOOKS, CONDUCTOR PIPE

Berger Bros. Co., Philadelphia, Pa.

Hussey & Co., C. G., Pittsburgh, Pa.
Inland Steel Products Co., Milwaukee, Wis.
Klauer Mfg. Co., Dubuque, Ia.

HOSE AND FITTINGS, METAL, FLEXIBLE

Anaconda American Brass Co., Waterbury, Conn.
Anaconda Metal Hose Div., American Brass Co., Waterbury, Conn.
Cobra Metal Hose Div., D K Mfg. Co., Chicago, Ill.
Everhot Products Co., Chicago, Ill.
Flexaust Co., New York, N. Y.
Flexonics Corp., Maywood, Ill.
Hunt Valve Co., Salem, Ohio
International Metal Hose Co., Bellevue, O.
Korfund Co., Westbury, L. I., N. Y.
Packless Metal Hose, Inc., Mt. Vernon, N. Y.
Pennsylvania Flexible Metallic Tubing Co., Paoli, Pa.
Seamlex Co., Inc., Long Island City, N.Y.
Techniflex Corp., Port Jervis, N. Y.
Titeflex, Inc., Springfield, Mass.
United Metal Hose Co., Inc., Long Island City, N. Y.
Universal Metal Hose Co., Chicago, Ill.
Weatherhead Co., Ft. Wayne Div., Ft. Wayne, Ind.

HOSE, REFRIGERANT CHARGING

Airserco Mfg. Co., Pittsburgh, Pa.
Anaconda American Brass Co., Waterbury, Conn.
Henry Valve Co., Melrose Park, Ill.
Imperial Brass Mfg. Co., Chicago, Ill.
Madden Brass Products, Aurora, Ill.
McIntire Co., Livingston, N. J.
Mueller Brass Co., Port Huron, Mich.
Superior Valve and Fittings Co., Pittsburgh, Pa.
Techniflex Corp., Port Jervis, N. Y.
Titeflex, Inc., Springfield, Mass.
Weatherhead Co., Fort Wayne Div., Ft. Wayne, Ind.

HOUSINGS, BLOWER AND FAN

Air Controls, Inc., Cleveland, Ohio.
Airfan Engineering Co., Los Angeles, Calif. (Centrifugal)
Ammerman Co., Inc., Stillwater, Minn.
Barry Blower Co., Minneapolis, Minn.
Brundage Co., Kalamazoo, Mich.
Champion Blower & Forge Co., Lancaster, Pa.
Chicago Blower Corp., Franklin Park, Ill.
Clarage Fan Co., Kalamazoo, Mich.
Commercial Shearing & Stamping Co., Youngstown, Ohio.
Corite-Reynolds Corp., Des Plaines, Ill. (Plastic and plastic coated)
DeBothezat Fans Div., American Machine & Metals, Inc., East Moline, Ill.
Detroit Stamping Co., Detroit, Mich.
Garden City Fan & Blower Co., Niles, Mich. (Centrifugal)
Haveg Corp., Wilmington, Del. (Plastic)
Higgins Metal Products Co., The, Swanton, O.
Industrial Plastic Fabricators, Inc., Norwood, Mass. (Plastic)
Jan-Air, Inc., Richmond, Ill.
Lau Blower Co., Dayton, Ohio.
Martin Fan & Blower Co., Chicago, Ill.
Morrison Products, Inc., Cleveland, O.
Nelson Products, Herman, American Air Filter Co., Inc., Louisville, Ky.
Northern Blower Co., Cleveland, Ohio.
Revcor Inc., Carpentersville, Ill.
Rich Fan Mfg. Co., Phil, Houston, Tex. (Fan)
Sandberg Mfg. Co., Portland, Ore.
Torrington Mfg. Co., Torrington, Conn. (Blower)
Trade-Wind Div., Robbins & Myers, Inc., Pico Rivera, Calif.
U. S. Air Conditioning Corp., Delaware, O.
Utica Products, Inc., Utica, N. Y.
Utility Fan Corp., Div. of Utility Appliance Corp., Los Angeles, Calif.
Viking Air Products Div. of The Lau Blower Co., Cleveland, O.
Westinghouse Electric Corp., Sturtevant Div., Boston, Mass.

HOUSINGS, CHIMNEY, PREFABRICATED

Condensation Engineering Corp., Chicago, Ill.
McQuay, Inc., Minneapolis, Minn.
Van-Packer Co., Div. of Flintkote Co., Chicago Hts., Ill.
Wallace Co., William, Metalbestos Div., Belmont, Calif.

HUMIDIFIER FITTINGS

See Fittings, Humidifier, Water Line

HUMIDIFIER PLATES

See Plates, Humidifier

HUMIDIFIER VALVES

See Valves, Shut-off, Humidifier, Water Line

HUMIDIFIERS, FURNACE, AUTOMATIC, EVAPORATIVE

Air-Heat Corp., Chicago, Ill.
American Comfort Mfg. Co., Evanston, Ill.
Auto-Flo Corp., Detroit, Mich.
Automatic Humidifier Co. Div., Standard Mfg. Co., Cedar Falls, Iowa
B & D Enterprises, Inc., Madison, Wis. (Warm air)
Century Engineering Corp., Cedar Rapids, Ia.
Char-Gale Mfg. Co., Anoka, Minn.
Cleveland Humidifier Co., Cleveland, Ohio.
Cronstroms Manufacturing, Inc., Minneapolis, Minn.
Dowagiac Steel Furnace Co., Dowagiac, Mich.
Econo-Matic Products Co., Inc., Detroit, Mich.
Fairway Division, Detroit, Mich.
Friend-Pike Sheet Metal & Roofing Co., Sioux City, Ia.
General Filters, Inc., Novi, Mich.
Hansen Tool & Die Co., Milwaukee, Wis.
Keeney Mfg. Co., Newton, Conn.
Maid-O'-Mist, Inc., Chicago, Ill.
Mueller Climatrol, Milwaukee, Wis.
Reliable Equipment & Supply Co., Berkeley Heights, N. J.
Research Products Corp., Madison, Wis.
Royal Mfg. Co., Royal Oak, Mich.
Skuttle Mfg. Co., Milford, Mich. (Standard and electrical immersion element types)
Swan Humidifier Co., Ballston Spa, N. Y.
Terry Vap Co., St. Paul, Minn.
Valley Mfg. Co., Valley, Nebr. (Gas-fired)
Viking Air Products Div. of The Lau Blower Co., Cleveland, O.

HUMIDIFIERS, FURNACE, AUTOMATIC, SPRAY TYPE

Arklon Products Co., Cleveland, O.
Automatic Humidifier Co. Div., Standard Mfg. Co., Cedar Falls, Ia.
Burgess Vibrocrafters, Inc., Grayslake, Ill.
Century Engineering Corp., Cedar Rapids, Iowa.
Cronstroms Manufacturing, Inc., Minneapolis, Minn.
HERRmidifier Co., Inc., Lancaster, Pa.
Lennox Industries Inc., Marshalltown, Ia.
Lewbill Industries, Inc., Scottsdale, Pa.
Little Giant Pump Co., Div. of Little Giant Vaporizer Co., Inc., Oklahoma City, Okla.
McDonald Mfg. Co., A. Y., Dubuque, Ia.
Pelna Engineering Corp., Philadelphia, Pa.
Pollen Ex, Chicago, Ill.
Somers, Inc., H. J., Detroit, Mich.
Spray Engineering Co., Burlington, Mass.
Spraying Systems Co., Chicago, Ill.
Walton Laboratories, Inc., Irvington, N. J.

HUMIDIFIERS, PORTABLE

Abbeon Supply Co., Jamaica, N. Y.
Air-Heat Corp., Chicago, Ill.
Albion Div., McGraw-Edison Co., Albion, Mich.
Auto-Flo Corp., Detroit, Mich.
Burgess Vibrocrafters, Inc., Grayslake, Ill.
HERRmidifier Co., Inc., Lancaster, Pa.
Kauffman Air Conditioning Corp., St. Louis, Mo.
Pentron Electronics Corp., Chicago, Ill.
Research Products Corp., Madison, Wis.
Rotherm Engineering Co., Inc., Chicago, Ill.
Silver Creek Precision Corp., Silver Creek, N. Y.
Skuttle Mfg. Co., Milford, Mich.
Stocker & Son Inc., H. G., Osceola, Wis.
Walton Laboratories, Inc., Irvington, N. J.

HUMIDISTATS

See Controls

HUMIDITY RECORDERS

See Recorders, Humidity

HYGROMETERS

Airguide Instrument Co., Chicago, Ill.
Airsco Mfg. Co., Pittsburgh, Pa.
Bristol Co., Waterbury, Conn.
Central Scientific Co., Chicago, Ill.
Daystrom-Weston Sales Div., Daystrom Inc., Newark, N. J.
Foxboro Co., Foxboro, Mass.
G. M. Mfg. Co., New York, N. Y.
General Scientific Equipment Co., Philadelphia, Pa.
H-B Instrument Co., Philadelphia, Pa.
Hill & Co., E. Vernon, Lake Geneva, Wis.
Hygrodyamics, Inc., Silver Spring, Md.
Johnson Service Co., Milwaukee, Wis.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Moeller Instrument Co., Richmond Hill, N. Y.
Palmer Thermometers, Inc., Cincinnati, Ohio.
Philadelphia Thermometer Co., Philadelphia, Pa.
Precision Thermometer & Instrument Co., Philadelphia, Pa.
Taylor Instrument Companies, Rochester, N. Y.
Walton Laboratories, Inc., Irvington, N. J.
Weksler Instruments Corp., Freeport, N. Y.

INCINERATORS

Adams Co., The, Dubuque, Ia.
Autogas Co., Bellwood, Ill.
Bastian-Morley Co., Inc., La Porte, Ind.
Blue-Ray Gas Burner Co., Detroit, Mich.
Calcinator Corp., Bay City, Mich.
Comstock-Castle Stove Co., Quincy, Ill.
Coroaire Heater Corp., Cleveland, O.
Donley Bros. Co., Cleveland, O.
Dornback Furnace & Foundry Co., Eastlake, O.
General Engineering Co., Bay City, Mich.
Goder Incinerator Corp., Blue Island, Ill.
Heimbach Incinerator Mfg. Co., St. Paul, Minn.
Henry Furnace Co., Medina, O.
Incinerator Products Co., Detroit, Mich.
Kerner Incinerator Div., Morse-Boulger, Inc., New York, N.Y.
Killam Gas Burner Co., Denver, Colo.
King Stove and Range Co., Sheffield, Ala.
Locke Stove Co., Kansas City, Mo.
Lyons, Edward W., Youngstown, O.
Majestic Co., Inc., Huntington, Ind.
Martin Stamping & Stove Co., Huntsville, Ala.
Mustee & Sons, Inc., E. L., Cleveland, O.
Nelson Industries, Pittsburgh, Pa.
Olsen Mfg. Co., The C. A., Elyria, O.
Queen Products Div., King-Seeley Corp., Albert Lea, Minn.
Schwab Furnace Co., Milwaukee, Wis.
Silent Glow Oil Burner Co., Hartford, Conn.
Standard Fuel Engineering Co., Detroit, Mich.
Syrall Mfg. Co., Syracuse, N. Y.
Waste King Corp., Incinerator Div., Cleveland, O.

INDICATING THERMOMETERS

See Thermometers, Indicating

INJECTOR FOR REMOVING CONDENSATE FROM AIR CONDITIONING UNITS

Condensate Siphon Jet Corp., New York, N. Y.

INSULATING CEMENT

See Cement, Insulating

INSULATION, BUILDING

American Flange & Mfg. Co., Inc., New York, N. Y. (Reflective)
American Hair & Felt Co., Chicago, Ill. (Hair)

American Sisalkraft Corp., Attleboro, Mass. (Reflective)
Armstrong Cork Co., Lancaster, Pa. (Wood fiber, glass fiber)
Baldwin-Ehret-Hill, Inc., Trenton, N. J. (Mineral wool)
Barnhardt Mfg. Co., Charlotte, N. C.
Barrett Div. Allied Chemical Corp., New York, N. Y. (Mineral wool)
Cabot, Inc., Samuel, Boston, Mass.
Carey Co., Philip, Cincinnati, Ohio. (Mineral wool, spun rock wool)
Casavan Industries, Inc., Paterson, N. J. (Foam plastic)
Celotex Corp., Chicago, Ill.
Certain-teed Products Corp., Ardmore, Pa. (Glass fiber)
Chamberlin Co. of America, New York, N. Y. (Rock wool)
Dow Chemical Co., Midland, Mich. (Plastic)
Dyfoam Corp., New Castle, Pa. (Expanded polystyrene)
Eagle-Picher Co., Cincinnati, Ohio. (Mineral Wool)
Flintkote Co., New York, N. Y. (Fibre board & insulating wool)
Forest-Wool Insulation Co., Inc., Marshall, Mich.
Forty-Eight Insulations, Inc., Aurora, Ill. (Mineral wool)
Glas-Kraft, Inc., Slatersville, R. I. (Reflective)
Hagan Mfg. Co., Delphos, O.
Infra Insulation, Inc., West Nyack, N. Y. (Accordion aluminum and paper)
Insul-Cell Mfg. Co., Muncie, Ind. (Cellulose fiber)
Insulite Div. Minnesota & Ontario Paper Co., Minneapolis, Minn. (Wood fibre)
Insul-Wool Insulation Co., Council Bluffs, Ia. (Cellulose fiber)
Isoflex Corp., Burlingame, Calif.
Johns-Manville, New York, N. Y.
Lockport Mills Inc., Lockport, N. Y. (Blanket)
Ludlow Papers, A Division of Ludlow Corp., Needham Heights, Mass.
Midwest Insulations, Inc., Wabash, Ind. (Mineral wool)
Mineral Wool Insulation, Div. of Better Industries, Inc., Fontana, Calif. (Rock wool)
Mundet Cork Corp., North Bergen, N. J. (Cork)
National Cork Co., Englewood, N. J. (Cork)
National Gypsum Co., Buffalo, N. Y.
Owens-Corning Fiberglass Corp., New York, N. Y. (Board & blanket)
Pacific Lumber Co., San Francisco, Calif. (Wood fiber)
Pal-O-Pak Insulation Co., Inc., Hartland, Wis. (Cellulose fibers)
Pittsburgh Corning Corp., Pittsburgh, Pa. (Cellular glass)
Pittsburgh Plate Glass Co., Pittsburgh, Pa. (Cellular glass)
Plastergon Wall Board Co., Buffalo, N. Y.
Quaker State Metals Co., Lancaster, Pa. (Aluminum reflective)
Reflectal Corp., Subsidiary Borg-Warner Corp., Chicago, Ill.
Revere Copper & Brass Inc., Foil Div., Brooklyn, N. Y. (Reflective)
Reynolds Metals Co., Richmond, Va. (Aluminum foil)
Richkraft Co., The, Chicago, Ill. (Reflective)
Robinson Insulation Co., Great Falls, Mont. (Vermiculite)
Ruberoid Co., New York, N. Y. (Aluminum foil and glass fiber)
Silvercote Products, Inc., Chicago, Ill. (Reflective type)
Spray-Flake Co., Chicago, Ill. (Mineral fiber & adhesive)
Standard Asbestos Mfg. Co., Chicago, Ill. (Asbestos)
Surface Chemicals Inc., McKees Rocks, Pa.
Tennessee Products & Chemical Corp., Nashville, Tenn. (Mineral wool)
Union Asbestos & Rubber Co., Fibrous Products Div., Bloomington, Ill.
U.S. Pipe & Foundry Co., Birmingham, Ala. (Rock wool)
United Cork Cos., Kearney, N. J. (Polystyrene, cork and expanded)
United States Gypsum Co., Chicago, Ill. (Mineral wool)
United States Mineral Wool Co., Stanhope, N. J. (Mineral wool)
U. S. Rock Wool Co., Salt Lake City, Utah. (Blowing wool, batt and blanket)
Wilson & Co., Inc., Chicago, Ill. (Hair, Felt)
Wilson, Inc., Grant, Chicago, Ill. (Rock Wool)
Wood Conversion Co., St. Paul, Minn.
Zonolite Co., Chicago, Ill.

INSULATION, DUCT

American Hair & Felt Co., Chicago, Ill. (Hair felt)
Armstrong Cork Co., Lancaster, Pa. (Glass fiber)
Baldwin-Ehret-Hill, Inc., Trenton, N. J. (Mineral wool)
Cabot, Inc., Samuel, Boston, Mass.
Carey Mfg. Co., Philip, Cincinnati, Ohio.
Celotex Corp., Chicago, Ill.
Dow Chemical Co., Midland, Mich.
Eagle-Picher Co., Cincinnati, Ohio.
Fibreboard Paper Products Corp., San Francisco, Calif. (Magnesia)
Forty-Eight Insulations, Inc., Aurora, Ill. (Mineral wool)

Gustin-Bacon Mfg. Co., Kansas City, Mo. (Glass fiber)
 Infra Insulation Inc., West Nyack, N. Y. (Accordion aluminum and paper)
 Insul-Coustic Corp., Maspeth, N. Y. (Preformed glass fiber)
 Johns-Manville Fiber Glass Inc., Toledo, O. (Glass fiber)
 Keystone Asphalt Products Co., Chicago, Ill.
 LaCade-Christy Clay Products Co., St. Louis, Mo.
 Lockport Mills Inc., Lockport, N. Y. (Blanket)
 Ludlow Papers, A Division of Ludlow Corp., Needham Heights, Mass. (Covering)
 Miracle Adhesives Corp., Bellmore, L. I., N. Y.
 Mortell Co., J. W., Kankakee, Ill. (Asphalt base)
 Mundet Cork Corp., North Bergen, N. J. (Cork)
 Munn and Steele, Inc., Newark, N. J. (Plastic)
 National Cork Co., Englewood, N. J. (Cork)
 Nazar Rubber Co., Toledo, O. (Rubber lining)
 Nicolet Industries, Inc., Florham Park, N. J.
 North American Asbestos Corp., Chicago, Ill. (Asbestos)
 Owens-Corning Fiberglas Corp., New York, N. Y. (Rigid & flexible with facings)
 Pittsburgh Corning Corp., Pittsburgh, Pa. (Cellular glass)
 Pittsburgh Plate Glass Co., Pittsburgh, Pa. (Cellular Glass)
 Quigley Co., Inc., New York, N. Y.
 Reflectal Corp., Subsidiary Borg-Warner Corp., Chicago, Ill. (Reflective)
 Refractory & Insulation Corp., New York, N. Y. (Inside duct lining)
 Reynolds Metals Co., Richmond, Va. (Aluminum foil)
 Robinson Insulation Co., Great Falls, Mont.
 Ruberoid Co., New York, N. Y. (Asbestos)
 Silvercote Products, Inc., Chicago, Ill. (Glass fiber)
 Spray-Flake Co., Chicago, Ill. (Mineral fiber & adhesive)
 Standard Asbestos Mfg. Co., Chicago, Ill. (Asbestos)
 Union Asbestos & Rubber Co., Fibrous Products Div., Bloomington, Ill.
 United Cork Cos., Kearney, N. J. (Cork and expanded)
 United States Rubber Co., New York, N. Y. (Sound deadening)
 Western Felt Works, Chicago, Ill. (Felt)
 Wilson & Co., Inc., Chicago, Ill. (Hair & felt)
 Wilson, Inc., Grant, Chicago, Ill.
 Wood Conversion Co., St. Paul, Minn.

INSULATION, EDGE, FOR USE BETWEEN PERIMETER OF CONCRETE SLAB AND FOUNDATION WALL

Armstrong Cork Co., Lancaster, Pa.
 Baldwin-Ehret-Hill, Inc., Trenton, N. J.
 Celotex Corp., Chicago, Ill.
 Dow Chemical Co., Midland, Mich.
 Dyfoam Corp., New Castle, Pa.
 Forty-Eight Insulations, Inc., Aurora, Ill.
 Hagan Mfg. Co., Delphos, O.
 Meadows, Inc., W. R., Elgin, Ill.
 National Gypsum Co., Buffalo, N. Y.
 Pittsburgh Corning Corp., Pittsburgh, Pa.
 Plastergon Wall Board Co., Buffalo, N. Y.
 Standard Asbestos Mfg. Co., Chicago, Ill.
 United States Mineral Wool Co., Stanhope, N. J.

INSULATION, TUBING

Armstrong Cork Co., Lancaster, Pa.
 Goodrich Co., B. F., Sponge Products, Shelton, Conn.
 Insul-Coustic Corp., Maspeth, N. Y.
 Johns-Manville, New York, N. Y.
 Miracle Adhesives Corp., Bellmore, L. I., N. Y.
 Mortell Co., J. W., Kankakee, Ill. (Tape)
 Presstite Div., American-Marietta Co., St. Louis, Mo.
 Rubatex Div., Great American Industries, Inc., Bedford, Va.
 Virginia Smelting Co., West Norfolk, Va.
 Wilson, Inc., Grant, Chicago, Ill.
 Zippertubing Co., The, Los Angeles, Calif.

INTAKES, OUTDOOR AIR

Rymco, Inc., Grosse Ile, Mich.

INTAKES, RETURN AIR

See Faces, Return Air

KITCHEN AND BATHROOM VENTILATING SYSTEMS (COMPLETE)

See Systems, Ventilating for Kitchens and Bathrooms

KITCHEN FANS

See Fans, Propeller Type, Kitchen

LACING MACHINES, METAL

See Machines, Sheet Metal Working, Crimping

LAMPS, STERILIZING, FOR DUCT INSTALLATION

Atlantic Ultraviolet Co., Inc., Long Island City, N. Y.
 General Electric Co., Large Lamp Dept., Cleveland, Ohio.
 Hanovia Lamp Div., Engelhard Hanovia, Inc., Newark, N. J.
 Sampson Scientific Corp., Chicago, Ill.
 Sperti Faraday, Inc., Adrian, Mich.
 Westinghouse Electric Corp., Bloomfield, N. J.

LEAD SHEETS

See Sheets, Metal, Lead

LETTERS, METAL

Campbell Stainless Products Co., Washington, Pa. (Stainless Steel)
 Metalcraft, Inc., Chicago, Ill.
 Miller & Doing, Brooklyn, N. Y. (All metals)
 Nelson-Harkins Industries, Inc., Chicago, Ill. (Stainless steel, aluminum, brazes, porcelain)
 United Stencil Corp., Brooklyn, N. Y. (Aluminum, brass and bronze)

LIFTS, SKYLIGHT

Biersach & Niedermeyer Co., Milwaukee, Wis.
 Levow, Inc., David, South Hackensack, N. J.
 Main Cornice Works, Inc., Los Angeles, Calif.
 Park City Cornice Works, Inc., Bridgeport, Conn.
 Perkinson, William J., Chicago, Ill.
 Van Noorden Co., E., Boston, Mass.
 Weiss & Co., H., New York, N. Y.

LIGHTER TUBES, GAS

See Controls, Pilot, Gas Burner

LIMIT CONTROLS

See Controls, Limit

LININGS, BLOW PIPE

Goodyear Tire and Rubber Co., Akron, O.

LININGS, CHIMNEY

Acme Mfg. Co., Philadelphia, Pa. (Stainless steel)
 Armstrong Fittings Co., Des Moines, Ia. (Stainless steel and aluminum)
 Condensation Engineering Corp., Chicago, Ill. (Vitreous enamel)
 Excelsior Steel Furnace Co., Chicago, Ill. (Stainless steel)
 Labeled Metal Products Corp., Broadview, Ill. (Stainless steel)
 Wallace Co., William, Metalbestos Div., Belmont, Calif.

LINKAGE SETS, DAMPER

See Sets, Damper Linkage

LINKS, FUSIBLE

Empire Metal Co., Syracuse, N. Y.
Hinden Products Co., Rockaway Park, N. Y.
Morse-Smith-Morse Co., Watertown, Mass.
Richards-Wilcox Mfg. Co., Aurora, Ill.
Steffens-Amberg Co., Newark, N. J.
Westinghouse Electric Corp., Pittsburgh, Pa.
Wind-Way Fan & Ventilator Co., New Orleans, La.

LOCKERS, METAL (BINS, SHELVING, ETC.)

Lyon Metal Products, Inc., Aurora, Ill.
Penco Div., Alan Wood Steel Co., Oaks, Pa.
Republic Steel Corp., Cleveland, O.

LOCK FORMERS

*See Machines, Sheet Metal Working, Pittsburgh Lock Forming;
Machines, Sheet Metal Working, Lock Forming*

LOCK OPENERS

See Machines, Sheet Metal Working, Pittsburgh Lock Opening

LOCKS, THERMOSTAT

Thermolok Mfg. Co., Inc., Franklin Sq., L. I., N. Y.

LOUVERS AND SHUTTERS, AUTOMATICALLY OR MANUALLY CONTROLLED

Acme Engineering & Mfg. Corp., Muskogee, Okla.
Aerovent Fan Co., Inc., Piqua, O.
Air Conditioning Engineering Co., Cambridge, Mass.
Air Conditioning Products Co., Detroit, Mich.
Air Controls, Inc., Div. Cleveland Heater Co., Cleveland, Ohio.
Air-Factors, Inc., Monrovia, Calif.
Airmaster Corp., Chicago, Ill.
Aiolite Co., Marietta, O.
Air & Refrigeration Corp., New York, N. Y.
Allen Cooler & Ventilator Inc., Rochester, Mich.
American Coolair Corp., Jacksonville, Fla.
American Warming & Ventilating Co., Toledo, Ohio.
Ammerman Co., Inc., Stillwater, Minn.
Arex Co., Chicago, Ill.
Belco Industries, Inc., St. Louis, Mo.
Berns Air King Corp., Chicago, Ill.
Bertram Co., Harvey P., Cincinnati, Ohio.
Biersach & Niedermeyer Co., Milwaukee, Wis.
Black Mfg. Co. Div., Alexander Milburn, Inc., Baltimore, Md.
Bowman Steel Corp., Pittsburgh, Pa.
Brisk Metal Products Div., Brisk Waterproofing Co., Ridgefield, N. J.
Buffalo Forge Co., Buffalo, N. Y.
Burt Mfg. Co., Akron, Ohio.
Carnes Corp., Verona, Wis.
Champion Blower & Forge Co., Lancaster, Pa.
Chelsea Fan & Blower Co., Inc., Plainfield, N. J.
Cirklair Products Div., Folsom Co., Inc., Dallas, Tex.
Clay Equipment Corp., Cedar Falls, Iowa.
Colt Ventilation of America, Inc., Los Angeles, Calif.
Commercialaire Corp. of America, Brooklyn, N. Y.
Consolidated General Products, Inc., Houston, Tex.
Construction Specialties, Inc., Cranford, N. J.
Controlair Mfg. Co., Los Angeles, Calif.
Duro-Dyne Corp., Farmingdale, N. Y.
Eagle-Picher Co., Cincinnati, Ohio.
Electrovent Fan & Mfg. Co., Chicago, Ill.
Elgo Shutter & Mfg. Co., Detroit, Mich.
Emglo Products Corp., Johnstown, Pa.
Empire Ventilation Equipment Co., Long Island City, N. Y.
Fort Valley Fan Co., Fort Valley, Ga.
Frigid, Inc., Brooklyn, N. Y.
Higgins Metal Products Co., The Swanton, O.
Hunter Div., Robbins & Myers, Inc., Memphis, Tenn.
Imperial Damper Co., New York, N. Y.
International Process Equipment Co. Div., The Patterson Foundry and Machine Co., East Liverpool, O.
Jordan & Co., Inc., Paul R., Indianapolis, Ind.
Kirk & Blum Mfg. Co., Cincinnati, Ohio.

Lakewood Engineering & Mfg. Co., Chicago, Ill.
Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif.
Maple City Furnace Co., Monmouth, Ill.
Martin Fan & Blower Co., Chicago, Ill.
Meier Electric, Indianapolis, Ind.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Morrison Products, Inc., Cleveland, O.
Overly Mfg. Co., Greensburg, Pa.
Palmer Engineering Co., Fan Div., West De Pere, Wis.
Peerless Electric Div., H. K. Porter Co., Warren, Ohio
Penn Ventilator Co. Inc., Philadelphia, Pa.
Perkinson, William J., Chicago, Ill.
Reed Unit-Fans, Inc., New Orleans, La.
Rich Fan Mfg. Co., Phil, Houston, Tex.
Rittling Corp., Buffalo, N. Y.
Robertson Co., H. H., Pittsburgh, Pa.
Senrac, Madison, Wis.
Simpson Co., Oakland, Calif.
Standard Electric Mfg. Co., Inc., West Berlin, N. J.
Standard Stamping & Perforating Co., Chicago, Ill.
Swartwout Fabricators, Inc., Kokomo, Ind.
Thermotank, Inc., Air Products Div., Detroit, Mich. (For high velocity systems)
Titus Mfg. Corp., Waterloo, Iowa.
Tuttle & Bailey Div. of Allied Thermal Corp., New Britain, Conn.
Union Damper Co., The, Union, Ill.
United Sheet Metal Co., Inc., Columbus, O.
United States Register Co., Battle Creek, Mich.
Uno Ventilator Co., Malden, Mass.
Van Noorden Co., E., Boston, Mass.
Ventilouver Co. Inc., Chicago, Ill.
Warner Ventilator Co., LeGrange, Ind.
Whirlwind Mfg. Co., Houston, Tex.
Wing Mfg. Div., L. J., Aero Supply Mfg. Co. Inc., Linden, N. J.
Young Regulator Co., Cleveland, Ohio.

LOUVERS, STATIONARY

Aerovent Fan Co., Inc., Piqua, O.
Air Conditioning Engineering Co., Cambridge, Mass.
Air Conditioning Products Co., Detroit, Mich.
Air Control Products, Inc., Coopersville, Mich.
Air-Factors, Inc., Monrovia, Calif.
Aiolite Co., Marietta, O.
Allen Cooler & Ventilator Inc., Rochester, Mich.
American Foundry & Furnace Co., Bloomington, Ill.
American Metal Works, Inc., New Orleans, La.
American Warming & Ventilating Co., Toledo, Ohio.
Ammerman Co., Inc., Stillwater, Minn.
Appleton Supply Co., Inc., Appleton, Wis.
Arex Co., Chicago, Ill.
Auer Register Co., Cleveland, O.
Barber-Colman Co., Rockford, Ill.
Berns Air King Corp., Chicago, Ill.
Biersach & Niedermeyer Co., Milwaukee, Wis.
Bowman Steel Corp., Pittsburgh, Pa.
Brisk Metal Products Div., Brisk Waterproofing Co., Ridgefield, N. J.
Burt Mfg. Co., Akron, Ohio.
Carnes Corp., Verona, Wis.
Cirklair Products Div., Folsom Co., Inc., Dallas, Tex.
Colt Ventilation of America, Inc., Los Angeles, Calif.
Construction Specialties, Inc., Cranford, N. J.
Donley Bros. Co., Cleveland, O.
Elgo Shutter & Mfg. Co., Detroit, Mich.
Empire Ventilation Equipment Co., Long Island City, N. Y.
Felter Co., John, Houston, Tex.
Firecraft Corp., Chicago, Ill.
Frigid, Inc., Brooklyn, N. Y.
Higgins Metal Products Co., The Swanton, O.
Hohmann & Barnard, Inc., New York, N. Y.
Imperial Damper Co., New York, N. Y.
Industrial Equipment Co., The, Minster, O.
Inland Steel Products Co., Milwaukee, Wis.
Kirk & Blum Mfg. Co., Cincinnati, O.
Labeled Metal Products Corp., Broadview, Ill.
Leslie Welding Co., Inc., Franklin Park, Ill.
Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif.
Maple City Furnace Co., Monmouth, Ill.
Martin Fan & Blower Co., Chicago, Ill.
Molloy Machine Corp., Chicago, Ill.
Muckle Mfg. Co., Owatonna, Minn.
National Gypsum Co., Buffalo, N. Y.
Penn Ventilator Co. Inc., Philadelphia, Pa.
Perkinson, William J., Chicago, Ill.

Rich Fan Mfg. Co., Phil, Houston, Tex.
 Robertson Co., H. H., Pittsburgh, Pa.
 Senrac, Madison, Wis.
 Simpson Co., Oakland, Calif.
 Steelcraft Mfg. Co., Rossmore, O.
 Swartwout Fabricators, Inc., Kokomo, Ind.
 Titus Mfg. Corp., Waterloo, Iowa.
 Union Damper Co., The Union, Ill.
 United Sheet Metal Co., Inc., Columbus, O.
 United States Gypsum Co., Chicago, Ill.
 United States Register Co., Battle Creek, Mich.
 Uno Ventilator Co., Malden, Mass.
 Van Noorden Co., E., Boston, Mass.
 Ventilouwer Co. Inc., Chicago, Ill.
 Walcon Corp., Ecorse, Mich.
 Waterloo Register Co., Inc., Waterloo, Ia.

MACHINERY, SHEET METAL, REBUILT AND USED

Capacity 10 ga or lighter

Acme Equipment Co., Inc., Chicago, Ill.
 Burns Machinery Co., F. W., Milwaukee, Wis.
 Central West Machinery Co., Chicago, Ill.
 Federal Machinery Co., New York, N. Y.
 Harris Machinery Co., Minneapolis, Minn.
 Interstate Machinery Co., Inc., Chicago, Ill.
 Meyer Sheet Metal Machinery Co., Los Angeles, Calif.
 Packham Crimper Co., Mechanics-burgh, O.
 Potts-Farrington Co., Philadelphia, Pa.
 Reiner & Campbell Co., Inc., Newark, N. J.
 St. Louis Tool Co., St. Louis, Mo.

MACHINES, SHEET METAL WORKING, ANGLE IRON BENDING

Diesel Power, Inc., Sharon, Pa.
 Excelsior Tool & Machine Co., East St. Louis, Ill.
 Hendley & Whittemore Co., Beloit, Wis.
 Hossfeld Mfg. Co., Winona, Minn.
 Kane & Roach, Inc., Syracuse, N. Y.
 O'Neil-Irwin Mfg. Co., Lake City, Minn.
 Pedrick Tool & Machine Co., Philadelphia, Pa.
 Whitney Metal Tool Co., Rockford, Ill.

MACHINES, SHEET METAL WORKING, BAR FOLDING, HAND

Fallsington Mfg. Co., Fallsington, Pa.
 Lockformer Co., Chicago, Ill.
 Niagara Machine & Tool Works, Buffalo, N. Y.
 O'Neil-Irwin Mfg. Co., Lake City, Minn.
 Peck, Stow & Wilcox Co., Southington, Conn.
 St. Louis Tool Co., St. Louis, Mo.
 Smith Mfg. Co., R. E., Waukegan, Ill.
 Vyke Mfg. Co., Denver, Colo.

MACHINES, SHEET METAL WORKING, BEADING, HAND

Niagara Machine & Tool Works, Buffalo, N. Y.
 Packham Crimper Co., Mechanics-burgh, Ohio.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Robertson Machine and Foundry, Buffalo, N. Y.

MACHINES, SHEET METAL WORKING, BEADING, POWER

American Pullmax Co., Inc., Chicago, Ill.
 Fallsington Mfg. Co., Fallsington, Pa.
 Kane & Roach, Inc., Syracuse, N. Y.
 Kling Bros. Engineering Works, Chicago, Ill.
 Maplewood Div., Rockford Machine Tool Co., Rockford, Ill.
 Niagara Machine & Tool Works, Buffalo, N. Y.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Swaine Mfg. Co., Fred J., St. Louis, Mo.

MACHINES, SHEET METAL WORKING, BENDERS

Diesel Power, Inc., Sharon, Pa.

Hendley & Whittemore Co., Beloit, Wis.
 Hossfeld Mfg. Co., Winona, Minn.
 Kane & Roach, Inc., Syracuse, N. Y.
 Kling Bros. Engineering Works, Chicago, Ill.
 Knights Co., James, Sandwich, Ill.
 Martens & Stormoen, West Quincy, Mass.
 O'Neil-Irwin Mfg. Co., Lake City, Minn.
 Sebrell Corp., J. B., Los Angeles, Calif.
 Smith Mfg. Co., R. E., Waukegan, Ill.
 Whitney Metal Tool Co., Rockford, Ill.

MACHINES, SHEET METAL WORKING, BRAKES, HAND

Acme Equipment Co., Inc., Chicago, Ill.
 Berkroy Products Co., Los Angeles, Calif.
 Casite Industries, Inc., St. Clair Shores, Mich.
 Dreis & Krump Mfg. Co., Chicago, Ill.
 Lake Erie Machinery Corp., Buffalo, N. Y.
 Niagara Machine & Tool Works, Buffalo, N. Y.
 O'Neil-Irwin Mfg. Co., Lake City, Minn.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Smith Mfg. Co., R. E., Waukegan, Ill.
 Stueck, Inc., W. Whitney, Old Saybrook, Conn.
 Ward Machinery Co., Chicago, Ill.
 Whitney Metal Tool Co., Rockford, Ill.

MACHINES, SHEET METAL WORKING, BRAKES, PORTABLE

Berkroy Products Co., Los Angeles, Calif.
 Dreis & Krump Mfg. Co., Chicago, Ill.
 Fayette Mfg. Co., Morenci, Mich.
 Haulette Div., Fayette Mfg. Co., Fayette, O.
 Miller-Knuth Mfg. Co., Auburn, Nebr.
 Niagara Machine & Tool Works, Buffalo, N. Y.
 O'Neil-Irwin Mfg. Co., Lake City, Minn.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Smith Mfg. Co., R. E., Waukegan, Ill.
 Stueck, Inc., W. Whitney, Old Saybrook, Conn.
 Vyke Mfg. Co., Denver, Colo.
 Whitney Metal Tool Co., Rockford, Ill.

MACHINES, SHEET METAL WORKING, BRAKES, POWER

Bath Co., Cyril, Solon, O.
 Cincinnati Shaper Co., Cincinnati, O.
 Cleveland Crane & Engineering Co., Wickliffe, Ohio.
 Dreis & Krump Mfg. Co., Chicago, Ill.
 Excelsior Tool & Machine Co., East St. Louis, Ill.
 Lake Erie Machinery Corp., Buffalo, N. Y.
 Niagara Machine & Tool Works, Buffalo, N. Y.
 Service Machine Co., Inc., Elizabeth, N. J.
 Taylor-Winfield Corp., Warren, O.
 Verson Allsteel Press Co., Chicago, Ill.

MACHINES, SHEET METAL WORKING, BRAKES, PRESS

Bath Co., Cyril, Solon, O.
 Dreis & Krump Mfg. Co., Chicago, Ill.
 Doelger & Kirsten, Inc., Milwaukee, Wis.
 Excelsior Tool & Machine Co., East St. Louis, Ill.
 Fallsington Mfg. Co., Fallsington, Pa.
 Niagara Machine & Tool Works, Buffalo, N. Y.
 O'Neil-Irwin Mfg. Co., Lake City, Minn.
 Service Machine Co., Inc., Elizabeth, N. J.
 Stueck, Inc., W. Whitney, Old Saybrook, Conn.
 Taylor-Winfield Corp., Warren, O.
 Verson Allsteel Press Co., Chicago, Ill.
 Whitney Metal Tool Co., Rockford, Ill.

MACHINES, SHEET METAL WORKING, BURRING, HAND

Frederick Iron & Steel, Inc., Frederick, Md.
 Niagara Machine & Tool Works, Buffalo, N. Y.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Swaine Mfg. Co., Fred J., St. Louis, Mo.

MACHINES, SHEET METAL WORKING, BURRING, POWER

Maplewood Div., Rockford Machine Tool Co., Rockford, Ill.
Niagara Machine & Tool Works, Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Swaine Mfg. Co., Fred J., St. Louis, Mo.
Thor Power Tool Co., Aurora, Ill.

MACHINES, SHEET METAL WORKING, CLEAT BENDING

Duc-Pac Inc., East Longmeadow, Mass.
Engel Sheet Metal Equipment, Inc., St. Louis, Mo.
Lockformer Co., Chicago, Ill.
Smith Mfg. Co., R. E., Waukegan, Ill.

MACHINES, SHEET METAL WORKING, CLIP FORMING

Lockformer Co., Chicago, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Whitney Mfg. Co., W. A., Rockford, Ill.

MACHINES, SHEET METAL WORKING, COMBINATION, HAND

Beading, Burring, Turning, Wiring, etc.

Lockformer Co., Chicago, Ill.
Niagara Machine & Tool Works, Buffalo, N. Y.
Packham Crimper Co., Mechanics-burgh, Ohio.
Peck, Stow & Wilcox Co., Southington, Conn.

MACHINES, SHEET METAL WORKING, COMBINATION, POWER

Beading, Burring, Turning, Wiring, etc.

Flagler Corp., The, Detroit, Mich.
Maplewood Div., Rockford Machine Tool Co., Rockford, Ill.
Niagara Machine & Tool Works, Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Roto-Table Div. of the Fogarty Mfg. Co., Dayton, O.
Swaine Mfg. Co., Fred J., St. Louis, Mo.
Wysong & Miles Co., Greensboro, N. C.

MACHINES, SHEET METAL WORKING, CRIMPING, HAND

Berkroy Products Co., Los Angeles, Calif.
Fallsington Mfg. Co., Fallsington, Pa.
Niagara Machine & Tool Works, Buffalo, N. Y.
Packham Crimper Co., Mechanics-burgh, Ohio.
Peck, Stow & Wilcox Co., Southington, Conn.
Whitney Metal Tool Co., Rockford, Ill.

MACHINES, SHEET METAL WORKING, CRIMPING, POWER

Fallsington Mfg. Co., Fallsington, Pa.
Maplewood Div., Rockford Machine Tool Co., Rockford, Ill.
Niagara Machine & Tool Works, Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Stamco Inc., New Bremen, O.
Swaine Mfg. Co., Fred J., St. Louis, Mo.

MACHINES, SHEET METAL WORKING, DOUBLE SEAMING, ROOF, POWER

Flagler Corp., The, Detroit, Mich.
Lockformer Co., Chicago, Ill.
Niagara Machine & Tool Works, Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Swaine Mfg. Co., Fred J., St. Louis, Mo.

MACHINES, SHEET METAL WORKING, DUCT SEAMING

See Machines, Sheet Metal Working, Grooving

MACHINES, SHEET METAL WORKING, DUCT, SPIRAL

Spiro U.S.A., Inc., Chicago, Ill.

MACHINES, SHEET METAL WORKING, ELBOW OR COLLAR ATTACHING, HAND

Frederick Iron & Steel, Inc., Frederick, Md.
Niagara Machine & Tool Works, Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.

MACHINES, SHEET METAL WORKING, ELBOW OR COLLAR ATTACHING, POWER

Niagara Machine & Tool Works, Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Wely-Way Products, Inc., Cedar Rapids, Ia.

MACHINES, SHEET METAL WORKING, FASTENING, MANUAL

Airo Industries, Los Angeles, Calif.
Bar-Brook Mfg. Co., Inc., Shreveport, La.

MACHINES, SHEET METAL WORKING, FILING

DoAll Co., Des Plaines, Ill.
Grob Inc., Grafton, Wis.

MACHINES, SHEET METAL WORKING, FLANGING, HAND

Engel Sheet Metal Equipment, Inc., St. Louis, Mo.
Flagler Corp., The, Detroit, Mich.
Lockformer Co., Chicago, Ill.
Niagara Machine & Tool Works, Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Smith Mfg. Co., R. E., Waukegan, Ill.
Ward Machinery Co., Chicago, Ill.

MACHINES, SHEET METAL WORKING, FLANGING, POWER

Bath Co., Cyril, Solon, O.
Engel Sheet Metal Equipment, Inc., St. Louis, Mo.
Fallsington Mfg. Co., Fallsington, Pa.
Flagler Corp., The, Detroit, Mich.
Kling Bros. Engineering Works, Chicago, Ill.
Lockformer Co., Chicago, Ill.
Maplewood Div., Rockford Machine Tool Co., Rockford, Ill.
Niagara Machine & Tool Works, Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Swaine Mfg. Co., Fred J., St. Louis, Mo.
Taylor-Winfield Corp., Warren, O.
Ward Machinery Co., Chicago, Ill.

MACHINES, SHEET METAL WORKING, GROOVING, HAND

Enderle, Inc., Ltd., Frank X., Los Angeles, Calif.
Niagara Machine & Tool Works, Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Whitney Metal Tool Co., Rockford, Ill.

MACHINES, SHEET METAL WORKING, GROOVING, POWER

Flagler Corp., The, Detroit, Mich.
Hardco Products, Wantagh, N. Y.
Niagara Machine & Tool Works, Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Standard Power Groove Machine Corp., New York, N. Y.
Swaine Mfg. Co., Fred J., St. Louis, Mo.

MACHINES, SHEET METAL WORKING, GUTTER FORMING, HAND OR POWER

Bowles Co., A. M., Houston, Tex. (Hand)
Grover Machinery Co., St. Louis, Mo.
Kane & Roach, Inc., Syracuse, N. Y. (Power)
Malden Research and Development Co., Inc., Malden, Boston, Mass.
Maplewood Div., Rockford Machine Tool Co., Rockford, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Robertson Machine and Foundry, Buffalo, N. Y.
Stamco, Inc., New Bremen, Ohio.
Stearns Lumber Co., A. T., Boston, Mass.
Wetly-Way Products, Inc., Cedar Rapids, Ia. (Power)

MACHINES, SHEET METAL WORKING, LOCK FORMING, POWER

Fallsington Mfg. Co., Fallsington, Pa.
Flagler Corp., The, Detroit, Mich.
Kane & Roach, Inc., Syracuse, N. Y.
Lockformer Co., Chicago, Ill.
Maplewood Div., Rockford Machine Tool Co., Rockford, Ill.
Niagara Machine & Tool Works, Buffalo, N. Y.

MACHINES, SHEET METAL WORKING, NIBBLING, HAND

Black & Decker Mfg. Co., Towson, Md.
Penway Machine Co., Inc., Philadelphia, Pa.
Hedstrom Tool Co., Montclair, N. J.
Heinrich Tools, Inc., Racine, Wis.
Jemco Tool Corp., Seneca Falls, N. Y.
Modern Mfg. Co., Inc., Willow Grove, Pa.
Niagara Machine & Tool Works, Buffalo, N. Y.

MACHINES, SHEET METAL WORKING, NIBBLING, POWER

American Pullmax Co., Inc., Chicago, Ill.
Berkroy Products Co., Los Angeles, Calif.
Claremont Co., Inc., The, Meriden, Conn.
Cosa Corp., New York, N. Y.
Hedstrom Tool Co., Montclair, N. J.
Homestrand Machine Tool Corp., Greenwich, Conn.
Lennox Tool & Machine Builders, Lima, O.
Libert Machine Co., Green Bay, Wis.
Niagara Machine & Tool Works, Buffalo, N. Y.
St. Louis Tool Co., St. Louis, Mo.
Savage Co., W. J., Knoxville, Tenn.
Service Machine Co., Inc., Elizabeth, N. J.
Thor Power Tool Co., Aurora, Ill.
Wales-Strippit Co., Akron, N. Y.
Wilson Mechanical Instrument Div., American Chain & Cable Co., New York, N. Y.

MACHINES, SHEET METAL WORKING, NOTCHER, SHEAR AND PUNCH, POWER

Buffalo Forge Co., Buffalo, N. Y.
Ryerson & Son, Inc., Joseph T., Chicago, Ill.

MACHINES, SHEET METAL WORKING, NOTCHING, MANUAL

Diesel Power, Inc., Sharon, Pa.
Engel Sheet Metal Equipment, Inc., St. Louis, Mo.
Fallsington Mfg. Co., Fallsington, Pa. (Also power)
Hedstrom Tool Co., Montclair, N. J.
Hendley & Whittemore Co., Beloit, Wis.
Kidder Mfg. Co., Inc., J. F., Burlington, Vt.
Niagara Machine & Tool Works, Buffalo, N. Y.
O'Neil-Irwin Mfg. Co., Lake City, Minn.
Peck, Stow & Wilcox Co., Southington, Conn.
Punch Products Corp., Buffalo, N. Y.
Reiner & Campbell Co., Inc., Newark, N. J.
Thor Tool & Die Co., San Leandro, Calif.
Whitney Mfg. Co., W. A., Rockford, Ill.
Whitney Metal Tool Co., Rockford, Ill.
Wilder Mfg. Co., Salinas, Calif.

MACHINES, SHEET METAL WORKING, NOTCHING, POWER

Consolidated Marketing Corp., Philadelphia, Pa.
Engel Sheet Metal Equipment, Inc., St. Louis, Mo.
Lockformer Co., Chicago, Ill.
Niagara Machine & Tool Works, Buffalo, N. Y.
O'Neil-Irwin Mfg. Co., Lake City, Minn.
Ruoff & Sons, Inc., Bellmawr, N. J.
Taylor-Winfield Corp., Warren, O.
Wales-Strippit Co., Akron, N. Y.
Whitney Mfg. Co., W. A., Rockford, Ill.

MACHINES, SHEET METAL WORKING, PAN FORMING

Dreis & Krump Mfg. Co., Chicago, Ill.
Lake Erie Machinery Corp., Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Smith Mfg. Co., R. E., Waukegan, Ill.

MACHINES, SHEET METAL WORKING, PITTSBURGH LOCK FORMING

Flagler Corp., The, Detroit, Mich.
Lockformer Co., Chicago, Ill.
Maplewood Div., Rockford Machine Tool Co., Rockford, Ill.

MACHINES, SHEET METAL WORKING, PITTSBURGH LOCK OPENING

Birks Mfg. Co., Meriden, Conn.
Bristol Metal Working Equipment Co., East Hartford, Conn.
Fallsington Mfg. Co., Fallsington, Pa.
Maplewood Div., Rockford Machine Tool Co., Rockford, Ill.
Overland Sheet Metal Co., Overland, Mo.

MACHINES, SHEET METAL WORKING, PRESSES

Allen Industries, Alva, Clinton, Mo.
Bath Co., Cyril, Solon, O.
Benchmaster Mfg. Co., Gardena, Calif.
Bertsch & Co., Cambridge City, Ind.
Cincinnati Shaper Co., Cincinnati, Ohio.
Cleveland Crane & Engineering Co., Wickliffe, Ohio.
Cleveland Punch & Shear Works Co., Cleveland, Ohio.
Davis & Son Machine Works, Los Angeles, Calif.
Diamond Machine Tool Corp., Pico-Rivera, Calif.
Doelger & Kirsten, Inc., Milwaukee, Wis.
Dreis & Krump Mfg. Co., Chicago, Ill.
Fallsington Mfg. Co., Fallsington, Pa.
Famco Machine Co., Kenosha, Wis.
Hardco Products, Wantagh, N. Y.
Heidrich-Nourse Co., Los Angeles, Calif.
Henry & Wright Div. Emhart Mfg. Co., Hartford, Conn.
Highland Engineering Co., Santa Monica, Calif.
Johnson Machine & Press Corp., Div. of Bontrager Corp., Elkhart, Ind.
Kenco Mfg. Co., Los Angeles, Calif.
Leslie Welding Co., Inc., Franklin Park, Ill.
Niagara Machine & Tool Works, Buffalo, N. Y.
O'Neil-Irwin Mfg. Co., Lake City, Minn.
Service Machine Co., Inc., Elizabeth, N. J.
Swaine Mfg. Co., Fred J., St. Louis, Mo.
Verson Allsteel Press Co., Chicago, Ill.
Wales-Strippit Co., Akron, N. Y.
Ward Machinery Co., Chicago, Ill.
Whitney Mfg. Co., W. A., Rockford, Ill.
Whitney Metal Tool Co., Rockford, Ill.
Wiedemann Machine Co., Philadelphia, Pa.
Wilson, Inc., K. R., Arcade, N. Y.
Zeh & Hahnemann Co., Newark, N. J.

MACHINES, SHEET METAL WORKING, PUNCHES, POWER

Allen Industries, Alva, Clinton, Mo.
Bath Co., Cyril, Solon, O.
Chicago Pneumatic Tool Co., New York, N. Y.
Cleveland Punch & Shear Works Co., Cleveland, Ohio.
Consolidated Marketing Corp., Philadelphia, Pa.
Davis & Son Machine Works, Los Angeles, Calif.
Diamond Machine Tool Corp., Pico-Rivera, Calif.

Doelger & Kirsten, Inc., Milwaukee, Wis.
 Excelsior Tool & Machine Co., East St. Louis, Ill.
 Fallsington Mfg. Co., Fallsington, Pa.
 Famco Machine Co., Kenosha, Wis.
 Hendley & Whittemore Co., Beloit, Wis.
 Henry & Wright Div. Emhart Mfg. Co., Hartford, Conn.
 Highland Engineering Co., Santa Monica, Calif.
 Johnson Machine & Press Corp., Div. of Bontrager Corp., Elkhart, Ind.
 Kenco Mfg. Co., Los Angeles, Calif.
 Kling Bros. Engineering Works, Chicago, Ill.
 Niagara Machine & Tool Works, Buffalo, N. Y.
 O'Neil-Irwin Mfg. Co., Lake City, Minn.
 Progressive Welder Sales Co., Pontiac, Mich.
 Royersford Foundry & Machine Co., Royersford, Pa.
 Swaine Mfg. Co., Fred J., St. Louis, Mo.
 Taylor-Winfield Corp., Warren, O.
 Verson Allsteel Press Co., Chicago, Ill.
 Wales-Strippit Co., Akron, N. Y.
 Wedglock Corp., North Hollywood, Calif. (Portable pneumatic)
 Weiss & Co., H., New York, N. Y.
 Whitney Mfg. Co., W. A., Rockford, Ill.
 Whitney Metal Tool Co., Rockford, Ill.
 Wiedemann Machine Co., King of Prussia, Pa.
 Zeh & Hahnmann Co., Newark, N. J.

MACHINES, SHEET METAL WORKING, ROD CUTTING

Beverly Shear Mfg. Co., Chicago, Ill.
 Diesel Power, Inc., Sharon, Pa.
 Hendley & Whittemore Co., Beloit, Wis.
 O'Neil-Irwin Mfg. Co., Lake City, Minn.
 Ould (USA) Ltd., John, Mt. Vernon, N. Y.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Whitney Mfg. Co., W. A., Rockford, Ill.
 Whitney Metal Tool Co., Rockford, Ill.

MACHINES, SHEET METAL WORKING, SAWS, BAND, SHEET METAL CUTTING

Delta Power Tool Div., Rockwell Mfg. Co., Pittsburgh, Pa.
 DoAll Co., Des Plaines, Ill.
 Grob Inc., Grafton, Wis.
 Lockformer Co., Chicago, Ill.
 Stueck, Inc., W. Whitney, Old Saybrook, Conn.
 Tannewitz Works, Grand Rapids, Mich.
 Wells Mfg. Corp., Three Rivers, Mich.

MACHINES, SHEET METAL WORKING, SAWS, CIRCULAR, SHEET METAL CUTTING

Collins Machinery Corp., Monterey Park, Calif.
 Kett Tool Co., Cincinnati, O.
 Skil Corp., Chicago, Ill.
 Tannewitz Works, Grand Rapids, Mich.

MACHINES, SHEET METAL WORKING, SAWS, HACK, POWER

Miller-Knuth Mfg. Co., Auburn, Nebr.
 Racine Hydraulics & Machinery, Inc., Racine, Wis.
 Robertson Machine and Foundry, Buffalo, N. Y.
 Royersford Foundry & Machine Co., Royersford, Pa.
 Skil Corporation, Chicago, Ill.

MACHINES, SHEET METAL WORKING, SEAMING, HAND

Enderle, Inc., Ltd., Frank X., Los Angeles, Calif.
 Niagara Machine & Tool Works, Buffalo, N. Y.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Smith Mfg. Co., R. E., Waukegan, Ill.
 Whitney Metal Tool Co., Rockford, Ill.

MACHINES, SHEET METAL WORKING, SEAMING, POWER

Bliss Co., E. W., Detroit, Mich.

Engel Sheet Metal Equipment, Inc., St. Louis, Mo.
 Fallsington Mfg. Co., Fallsington, Pa.
 Flagler Corp., The, Detroit, Mich.
 Hardco Products, Wantagh, N. Y.
 Lockformer Co., Chicago, Ill.
 Niagara Machine & Tool Works, Buffalo, N. Y.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Progressive Welder & Machine Co., Pontiac, Mich.
 Stamco, Inc., New Bremen, Ohio.
 Swaine Mfg. Co., Fred J., St. Louis, Mo.

MACHINES, SHEET METAL WORKING, SETTING DOWN, HAND

Niagara Machine & Tool Works, Buffalo, N. Y.
 Peck, Stow & Wilcox Co., Southington, Conn.

MACHINES, SHEET METAL WORKING, SETTING DOWN, POWER

Fallsington Mfg. Co., Fallsington, Pa.
 Niagara Machine & Tool Works, Buffalo, N. Y.
 Peck, Stow & Wilcox Co., Southington, Conn.

MACHINES, SHEET METAL WORKING, SHAPE FORMING, POWER

For Mouldings and Shapes

Dahlstrom Machine Works, Chicago, Ill.
 Engel Sheet Metal Equipment, Inc., St. Louis, Mo.
 Flagler Corp., The, Detroit, Mich.
 Hendley & Whittemore Co., Beloit, Wis.
 Kane & Roach, Inc., Syracuse, N. Y.
 Lake Erie Machinery Corp., Buffalo, N. Y.
 Lockformer Co., Chicago, Ill.
 Maplewood Div., Rockford Machine Tool Co., Rockford, Ill.
 Niagara Machine & Tool Works, Buffalo, N. Y.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Wysong & Miles Co., Greensboro, N. C.
 Yoder Co., Cleveland, Ohio.

MACHINES, SHEET METAL WORKING, SHEARS, ANGLE IRON

Bateman Foundry & Machine Co., Mineral Wells, Tex.
 Hendley & Whittemore Co., Beloit, Wis.
 Kidder Mfg. Co., Inc., J. F., Burlington, Vt.
 Whitney Mfg. Co., W. A., Rockford, Ill.
 Whitney Metal Tool Co., Rockford, Ill.

MACHINES, SHEET METAL WORKING, SHEARS, CIRCLE, HAND

Berkroy Products Co., Los Angeles, Calif.
 Klenk, Inc., Karl, Wilmington, Del.
 Niagara Machine & Tool Works, Buffalo, N. Y.
 Peck, Stow & Wilcox Co., Southington, Conn.

MACHINES, SHEET METAL WORKING, SHEARS, CIRCLE, POWER

American Pullmax Co., Inc., Chicago, Ill.
 H. A. Mfg. Co., York, Pa.
 Kling Bros. Engineering Works, Chicago, Ill.
 Lennox Tool & Machine Builders, Lima, O.
 Libert Machine Co., Green Bay, Wis.
 Niagara Machine & Tool Works, Buffalo, N. Y.
 Peck, Stow & Wilcox Co., Southington, Conn.

MACHINES, SHEET METAL WORKING, SHEARS, ROTARY, SLITTING, HAND

Berkroy Products Co., Los Angeles, Calif.
 Engel Sheet Metal Equipment, Inc., St. Louis, Mo.
 Fidelity Tool Supply, Inc., Camden, N. J.
 Niagara Machine & Tool Works, Buffalo, N. Y.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Whitney Mfg. Co., W. A., Rockford, Ill.

MACHINES, SHEET METAL WORKING, SHEARS, ROTARY, SLITTING, POWER

American Pullmax Co., Inc., Chicago, Ill.
Flagler Corp., The, Detroit, Mich.
Kling Bros. Engineering Works, Chicago, Ill.
Maplewood Div., Rockford Machine Tool Co., Rockford, Ill.
Niagara Machine & Tool Works, Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Stanat Mfg. Co., Inc., Westbury, L.I., N. Y.
Wilder Mfg. Co., Inc., Salinas, Calif.

MACHINES, SHEET METAL WORKING, SHEARS, SQUARING, MANUAL

Acme Equipment Co., Inc., Chicago, Ill.
Diamond Machine Tool Corp., Pico-Rivera, Calif.
Frederick Iron & Steel, Inc., Frederick, Md.
Highland Engineering Co., Santa Monica, Calif.
Niagara Machine & Tool Works, Buffalo, N. Y.
O'Neil-Irwin Mfg. Co., Lake City, Minn.
Peck, Stow & Wilcox Co., Southington, Conn.
Whitney Metal Tool Co., Rockford, Ill.
Wilder Mfg. Co., Inc., Salinas, Calif.
Wysong & Miles Co., Greensboro, N. C.

MACHINES, SHEET METAL WORKING, SHEARS, SQUARING, POWER

Acme Equipment Co., Inc., Chicago, Ill.
Bertsch & Co., Cambridge City, Ind.
Cincinnati Shaper Co., Cincinnati, Ohio.
Cleveland Crane & Engineering Co., Wickliffe, Ohio.
Diamond Machine Tool Corp., Pico-Rivera, Calif.
Engel Sheet Metal Equipment, Inc., St. Louis, Mo.
Famco Machine Co., Kenosha, Wis.
H. A. Mfg. Co., York, Pa.
Johnson Machine & Press Corp., Div. of Bontrager Corp., Elkhart, Ind.
Niagara Machine & Tool Works, Buffalo, N. Y.
O'Neil-Irwin Mfg. Co., Lake City, Minn.
Peck, Stow & Wilcox Co., Southington, Conn.
Stamco, Inc., New Bremen, Ohio.
Verson Allsteel Press Co., Chicago, Ill.
Welty-Way Products, Inc., Cedar Rapids, Iowa
Whitney Metal Tool Co., Rockford, Ill.
Wilder Mfg. Co., Inc., Salinas, Calif.
Wysong & Miles Co., Greensboro, N. C.

MACHINES, SHEET METAL WORKING, SLIP ROLL FORMING, HAND

Berkroy Products Co., Los Angeles, Calif.
Frederick Iron & Steel, Inc., Frederick, Md.
Hendley & Whittemore Co., Beloit, Wis.
Niagara Machine & Tool Works, Buffalo, N. Y.
O'Neil-Irwin Mfg. Co., Lake City, Minn.
Peck, Stow & Wilcox Co., Southington, Conn.
San Angelo Foundry & Machine Co., San Angelo, Tex.
Wysong & Miles Co., Greensboro, N. C.

MACHINES, SHEET METAL WORKING, SLIP ROLL FORMING, POWER

Bertsch & Co., Cambridge City, Ind.
Fallsington Mfg. Co., Fallsington, Pa.
Hendley & Whittemore Co., Beloit, Wis.
Kling Bros. Engineering Works, Chicago, Ill.
Niagara Machine & Tool Works, Buffalo, N. Y.
O'Neil-Irwin Mfg. Co., Lake City, Minn.
Peck, Stow & Wilcox Co., Southington, Conn.
Reed Equipment Div., The Webb Corp., Webb City, Mo.
San Angelo Foundry & Machine Co., San Angelo, Tex.
Wysong & Miles Co., Greensboro, N. C.

MACHINES, SHEET METAL WORKING, SLITTING, HAND

Berkroy Products Co., Los Angeles, Calif.
Beverly Shear Mfg. Co., Chicago, Ill.

Hendley & Whittemore Co., Beloit, Wis.
Kidder Mfg. Co., Inc., J. F., Burlington, Vt.
Niagara Machine & Tool Works, Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Whitney Mfg. Co., W. A., Rockford, Ill.
Whitney Metal Tool Co., Rockford, Ill.

MACHINES, SHEET METAL WORKING, SLITTING, POWER

Beverly Shear Mfg. Co., The, Chicago, Ill.
Dahlstrom Machine Works, Chicago, Ill.
Engel Sheet Metal Equipment, Inc., St. Louis, Mo.
Flagler Corp., The, Detroit, Mich.
Hendley & Whittemore Co., Beloit, Wis.
Kane & Roach, Inc., Syracuse, N. Y.
Libert Machine Co., Green Bay, Wis.
Lockformer Co., Chicago, Ill.
Maplewood Div., Rockford Machine Tool Co., Rockford, Ill.
Niagara Machine & Tool Works, Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
St. Louis Tool Co., St. Louis, Mo.
Stamco, Inc., New Bremen, Ohio.
Stanat Mfg. Co., Inc., Westbury, L.I., N. Y.
Welty-Way Products, Inc., Cedar Rapids, Iowa
Wilder Mfg. Co., Inc., Salinas, Calif.
Yoder Co., Cleveland, Ohio.

MACHINES, SHEET METAL WORKING, STITCHING, POWER

Acme Steel Co., Chicago, Ill.
Bostitch, East Greenwich, R. I.

MACHINES, SHEET METAL WORKING, WIRING, HAND

Frederick Iron & Steel, Inc., Frederick, Md.
Niagara Machine & Tool Works, Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.

MACHINES, SHEET METAL WORKING, WIRING POWER

Maplewood Div., Rockford Machine Tool Co., Rockford, Ill.
Niagara Machine & Tool Works, Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Swaine Mfg. Co., Fred J., St. Louis, Mo.

MAGNETIC SHEET SUPPORT

See Support, Sheet, Magnetic

MAKEUP AIR HEATER

See Units, Makeup Air, Horizontal Package Type

MALLETS, METAL WORKING

Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y. (Lead)
Chase Brass & Copper Co., Inc., Waterbury, Conn. (Copper)
Chicago Rawhide Mfg. Co., Chicago, Ill. (Rawhide and nylon)
Division Lead Co., Summit, Ill. (Lead)
General Scientific Equipment Co., Philadelphia, Pa.
Greene, Tweed & Co., New York, N. Y. (Plastic, rawhide, composition, copper & babbitt)
Hi-Lok Mfg. Co., Akron, O. (Aluminum, steel, brass, copper, plastic, nylon)
Kloppenborg Foundry & Fan Co., Davenport, Ia. (Copper, aluminum)
Lignum-Vitae Products Corp., Jersey City, N. J.
New Plastic Corp., Hollywood, Calif. (Plastic)
Niagara Machine & Tool Works, Buffalo, N. Y. (Hickory)
Proto Tools, Los Angeles, Calif. (Plastic, brass, rubber)
Republic Rubber Div. Lee Rubber & Tire Corp., Youngstown, Ohio. (Rubber)
Stossel & Sons Co., Carl, Front Royal, Va. (Hickory & dogwood)

Tahlen Hammer Co., Seattle, Wash. (Nylon, plastic and metal faced)
Universal Pattern Layout & Template Development Co., St. Louis, Mo.

MANIFOLD ASSEMBLY FOR GAS-FIRED HEATING EQUIPMENT

See Controls, Gas, Combination

MARQUEES, PREFABRICATED

See Canopies, Prefabricated

MASONRY ANCHORS

See Anchors, Expansion

MATERIALS, PATCHING, TANK

Chicago Tank Lining Inc., Chicago, Ill.
Hasko Utilities Co., New York, N. Y.
Tankit Co., Inc., Newark, N. J.

MATERIALS, PROTECTIVE FOR POLISHED METAL SURFACES

Adhesive Tape Corp., Brooklyn, N. Y. (Protective paper)
Guard Coatings Corp., Long Island City, N. Y.
Onco Products, Inc., Middletown, O. (Water base, adhesive on paper-foil sheet)

MATS, EVAPORATIVE COOLER

Alton Mfg. Co., Dallas, Texas. (Aspenwood and Rubberized)
Arizona Maintenance Co., Tucson, Ariz.
International Metal Products Div., McGraw-Edison Co., Phoenix, Ariz. (Chemically treated aspen fiber)
Magic Aire Div., United Electric Co., Wichita Falls, Tex. (Aspenwood)
Morey, Dan, Los Angeles, Calif. (Aspen)
Palmer Industries, Inc., Phoenix, Ariz. (Aspen)
Research Products Corp., Madison, Wis. (Fiber)
Winter Mfg. Co., Winter, Tex.

METAL CEILINGS

See Ceilings, Metal

METAL HOSE

See Hose and Fittings, Metal

METAL LACING AND STITCHING MACHINES

See Machines, Sheet Metal Working, Crimping

METAL PROTECTIVE MATERIALS FOR POLISHED SURFACES

See Materials, Protective, for Polished Metal Surfaces

METAL SPRAY GUNS

See Guns, Spray, Metal

METAL STAMPINGS

See Stampings, Steel Furnace

METALS, PERFORATED, SHEET AND PLATE

Auer Register Co., Cleveland, O.
Beckley Perforating Co., Garwood, N. J.

Belmont Smelting & Refining Wks., Inc., Brooklyn, N. Y.
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Chicago Perforating Co., Chicago, Ill.
Colonial Alloys Co., Philadelphia, Pa.
Cross Perforated Metals, National-Standard Co., Carbondale, Pa.
Designers Metals, Div. of Southern Electric, Inc., Chicago, Ill.
Diamond Mfg. Co., Wyoming, Pa.
Division Lead Co., Summit, Ill.
Erdle Perforating Co., Rochester, N. Y.
Harrington & King Perforating Co., Inc., Chicago, Ill.
Harrison Sheet Steel Co., Chicago, Ill.
Hendrick Mfg. Co., Carbondale, Pa.
Littleford Bros., Inc., Cincinnati, Ohio.
Manhattan Perforated Metal Co., Inc., Long Island City, N. Y.
McKey Perforating Co., Inc., Brookfield, Wis.
Mundt & Sons, Charles, Jersey City, N. J.
Penn Metal Co., Inc., Boston, Mass.
Reynolds Metals Co., Richmond, Va.
Standard Stamping & Perforating Co., Chicago, Ill.

METERS, AIR VELOCITY, DIRECT READING

Airserco Mfg. Co., Pittsburgh, Pa.
Anemostat Corp. of America, New York, N. Y.
Bacharach Industrial Instrument Co., Pittsburgh, Pa.
Central Scientific Co., Chicago, Ill.
Dwyer Mfg. Co., F. W., Michigan City, Ind.
Hastings-Raydist, Inc., Hampton, Va.
Hill & Co., E. Vernon, Lake Geneva, Wis.
Illinois Testing Laboratories, Inc., Chicago, Ill.
Taylor Instrument Companies, Rochester, N. Y.

METERS, SOUND LEVEL

Airserco Mfg. Co., Pittsburgh, Pa.
Mine Safety Appliances Co., Pittsburgh, Pa.
Scott, Inc., H. H., Maynard, Mass.

MOLDINGS AND TRIM, ORNAMENTAL, CABINET AND CASING

Aluminum Co. of America, Pittsburgh, Pa.
American Insulator Corp., New Freedom, Pa.
Bonnell Co., Inc., William L., Newman, Ga.
Brasco Mfg. Co., Harvey, Ill.
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Dahlstrom Mfg. Corp., Jamestown, N. Y.
Detroit Moulding Div., L. A. Young Spring & Wire Corp., Detroit, Mich.
Jamestown Metal Corp., Jamestown, N. Y.
Kawneer Co., Niles, Mich.
Lynch & Sons, Kenneth, Wilton, Conn.
Metalines, Inc., Rockford, Ill.
Miller & Doing, Brooklyn, N. Y. (Architectural)
Mirro Aluminum Co., Manitowoc, Wis. (Aluminum)
Pyramid Mouldings, Inc., Chicago, Ill.
Revere Copper & Brass Inc., New York, N. Y.
Tennessee Fabricating Co., Memphis, Tenn. (Aluminum)
Werner Co., Inc., R. D., Greenville, Pa.

MOLDINGS AND TRIM FOR SIDING, SHINGLES AND STORE FRONTS

Allmetal Weatherstrip Co., Evanston, Ill. (Zinc)
Aluminum Co. of America, Pittsburgh, Pa.
Appleton Supply Co., Inc., Appleton, Wis. (Aluminum, zinc)
Bonnell Co., Inc., William L., Newman, Ga.
Edwards Mfg. Co., Inc., Cincinnati, Ohio.
Inland Steel Products Co., Milwaukee, Wis. (Corners)
Klauer Mfg. Co., Dubuque, Iowa.
Matthiessen & Hegeler Zinc Co., LaSalle, Ill.
Penn Supply & Metal Corp., Philadelphia, Pa.
Quaker State Metals Co., Lancaster, Pa.
Reynolds Metals Co., Richmond, Va. (Aluminum)
Royal-Apex Mfg. Co., Inc., Brooklyn, N. Y. (Bull nose corner bead)
Werner Co., Inc., R. D., Greenville, Pa.

MONORAIL SYSTEMS

Track, Trolley, Hoist, Accessories

American MonoRail Co., Cleveland, Ohio.

Chicago Tramrail Co., Chicago, Ill.
 Cleveland Crane & Engineering Co., Wickliffe, Ohio.
 Richards-Wilcox Mfg. Co., Aurora, Ill.
 Shepard Niles Crane & Hoist Corp., Montour Falls, N.Y.
 Webb Co., Jervis B., Detroit, Mich.

MOTOR TRUCKS

See Trucks, Motor

MOTORS, ELECTRIC, DUCT DAMPER, MODULATING OR PROPORTIONING

See Controls, Duct Damper, Modulating or Proportioning

MOTORS, ELECTRIC, DUCT, DAMPER, TWO POSITION

See Controls, Duct Damper, Two Position

MOTORS, ELECTRIC, FRACTIONAL H.P.

ACEC Electric Corp., New York, N. Y.
 Alliance Mfg. Co., Alliance, O.
 Baldor Electric Co., St. Louis, Mo.
 Barber-Colman Co., Rockford, Ill.
 Bodine Electric Co., Chicago, Ill.
 Brown-Brockmeyer Co., Inc., Dayton, Ohio.
 Century Electric Co., St. Louis, Mo.
 Delco Products Div. General Motors Corp., Dayton, Ohio.
 Doerr Electric Co., Cedarburg, Wis.
 Electric Motor Corp., Div. Howard Industries, Inc., Racine, Wis.
 Electric Motors & Specialties, Inc., Garrett, Ind.
 Emerson Electric Mfg. Co., St. Louis, Mo.
 Fasco Industries, Inc., Rochester, N. Y.
 Franklin Electric Co., Inc., Bluffton, Ind.
 General Electric Co., Apparatus Sales Offices, Schenectady, N. Y.
 Holtzer-Cabot Motor Div., National Pneumatic Co., Inc., Boston, Mass.
 Howard Industries, Inc., Racine, Wis.
 International Register Co., Chicago, Ill.
 Jack & Heintz, Inc., Cleveland, Ohio.
 Kingston-Conley, Inc., Div. of Howell Electric Motors Co., Plainfield, N. J.
 Leland Ohio Electric Co., Subsidiary of Howell Electric Motors Co., Dayton, Ohio.
 Lima Electric Motor Co., Inc., Lima, O.
 Marathon Electric Mfg. Corp., Wausau, Wis.
 Marble Electric Corp., Gladstone, Mich.
 Marco Electric Mfg. Corp., Womelsdorf, Pa.
 Mamco Corp., Racine, Wis.
 Master Electric Co., Div. of Reliance Electric and Engineering Co., Dayton, Ohio.
 Morey, Dan, Los Angeles, Calif.
 Morrill Motors, Inc., Ft. Wayne, Ind.
 National Pneumatic Co., Inc., New York, N. Y.
 Newman Electric Motors Inc., Newark, N. J.
 Ohio Electric Mfg. Co., Subsidiary of Howell Electric Motors Co., Cleveland, Ohio.
 Redmond Co., Inc., Subsidiary of Controls Co. of America, Owosso, Mich.
 Reliance Electric & Engineering Co., Cleveland, O.
 Reuland Elec. Co., Alhambra, Calif.
 Reynolds Electric Co., River Grove, Ill.
 Robbins & Myers, Inc., Springfield, Ohio.
 Small Motors, Inc., Chicago, Ill.
 Smith Corp., A. O., Motor Div., Tipp City, O.
 Speedway Mfg. Co., Div. of Thor Power Tool Co., LaGrange Park, Ill.
 Torq Electric Corp., Bedford, Ohio.
 U.S. Electrical Motors, Inc., Los Angeles, Calif.
 Universal Electric Co., Owosso, Mich.
 Wagner Electric Corp., St. Louis, Mo.
 Westinghouse Electric Corp., Pittsburgh, Pa.
 Worthington Corp., Harrison, N. J.

MOTORS, ELECTRIC, 1 H.P. AND OVER

ACEC Electric Corp., New York, N. Y.
 Allis Chalmers Mfg. Co., Milwaukee, Wis.

Allis Co., Louis, Milwaukee, Wis.
 Armor Electric Mfg. Co., Erie, Pa.
 Baldor Electric Co., St. Louis, Mo.
 Brook Motor Corp., Chicago, Ill.
 Brown-Brockmeyer Co., Inc., Dayton, Ohio.
 Century Electric Co., St. Louis, Mo.
 Delco Products Div., General Motors Corp., Dayton, Ohio.
 Doerr Electric Co., Cedarburg, Wis.
 Electric Machinery Mfg. Co., Minneapolis, Minn.
 Electro Dynamic Div., General Dynamics Corp., Bayonne, N. J.
 Elliott Co., Crocker-Wheeler Plant, Div. of Carrier Corp., Jeannette, Pa.
 Emerson Electric Mfg. Co., St. Louis, Mo.
 Fairbanks, Morse & Co., Chicago, Ill.
 Franklin Electric Co., Inc., Bluffton, Ind.
 General Electric Co., Apparatus Sales Offices, Schenectady, N. Y.
 Ideal Electric & Mfg. Co., Mansfield, Ohio.
 Imperial Electric Co., Akron, Ohio.
 Jack & Heintz, Inc., Cleveland, O.
 Kingston-Conley, Inc., Div. of Howell Electric Motors Co., Plainfield, N. J.
 Leland Ohio Electric Co., Subsidiary of Howell Electric Motors Co., Dayton, Ohio.
 Lima Electric Motor Co., Inc., Lima, O.
 Lincoln Electric Co., Cleveland, O.
 Marathon Electric Mfg. Corp., Wausau, Wis.
 Marble Electric Corp., Gladstone, Mich.
 Master Electric Div. of Reliance Electric and Engineering Co., Dayton, Ohio.
 Newman Electric Motors Inc., Newark, N. J.
 Peerless Electric Div., H. K. Porter Co., Warren, Ohio.
 Philadelphia Gear Corp., King of Prussia, Pa.
 Reliance Electric & Engineering Co., Cleveland, O.
 Reuland Electric Co., Alhambra, Calif.
 Robbins & Meyers, Inc., Springfield, Ohio.
 Safety Electrical Equipment Corp., New Haven, Conn.
 Smith Corp., A. O., Motor Div., Tipp City, O.
 Sterling Electric Motors, Inc., Los Angeles, Calif.
 U. S. Electrical Motors, Inc., Los Angeles, Calif.
 Valley Electric Corp., St. Louis, Mo.
 Wagner Electric Corp., St. Louis, Mo.
 Westinghouse Electric Corp., Pittsburgh, Pa.
 Worthington Corp., Harrison, N. J.

MOUNTINGS, VIBRATION

See Bases, Vibration

NAILS, ALUMINUM

Aluminum Co. of America, Pittsburgh, Pa.
 Chase Brass & Copper Co., Inc., Waterbury, Conn.
 Dickson Weatherproof Nail Co., Evanston, Ill.
 Hassall, Inc., John, Westbury, L. I., N. Y.
 Independent Nail & Packing Co., Bridgewater, Mass.
 Kaiser Aluminum & Chemical Sales, Inc., Oakland, Calif.
 Nichols Wire & Aluminum Co., Davenport, Iowa
 Quaker State Metals Co., Lancaster, Pa.
 Reynolds Metals Co., Richmond, Va.

NAILS, BRASS OR COPPER

American Steel & Wire Div., U. S. Steel Corp., Cleveland, Ohio.
 Chase Brass & Copper Co., Inc., Waterbury, Conn.
 Copperweld Steel Co., Wire and Cable Div., Glassport, Pa.
 Hassall, Inc., John, Westbury, L. I., N. Y.
 Hussey & Co., C. G., Pittsburgh, Pa.
 Independent Nail & Packing Co., Bridgewater, Mass.

NAILS, HARDENED MASONRY

American Steel & Wire Div., U. S. Steel Corp., Cleveland, Ohio.
 Dickson Weatherproof Nail Co., Evanston, Ill.
 Hillwood Mfg. Co., Cleveland, Ohio.
 Independent Nail & Packing Co., Bridgewater, Mass.
 Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 Parker-Kalon Div. of General American Transportation Corp., Clifton, N. J.
 Tremont Nail Co., Wareham, Mass.

NAILS, ROOFING

American Steel & Wire Div., U. S. Steel Corp., Cleveland, Ohio.
Berger Div., Republic Steel Corp., Canton, O. (Galvanized)
Bethlehem Steel Co., Bethlehem, Pa. (Steel)
Chase Brass & Copper Co., Inc., Waterbury, Conn. (Copper)
Deniston Co., Chicago, Ill. (Steel & aluminum)
Dickson Weatherproof Nail Co., Evanston, Ill. (Lead headed)
Division Lead Co., Summit, Ill. (Lead)
Hassall, Inc., John, Westbury, L. I., N. Y. (Copper)
Hussey & Co., C. G., Pittsburgh, Pa. (Copper)
Independent Nail & Packing Co., Bridgewater, Mass.
Jones & Laughlin Steel Corp., Pittsburgh, Pa. (Steel)
Kaiser Aluminum & Chemical Sales, Inc., Oakland, Calif. (Aluminum)
Maze Co., W. H., Peru, Ill. (Steel)
Quaker State Metals Co., Lancaster, Pa. (Aluminum)
Republic Steel Corp., Cleveland, Ohio. (Steel)
Reynolds Metals Co., Richmond, Va. (Aluminum)
Tennessee Coal & Iron Div., U. S. Steel Corp., Fairfield, Ala.

NAILS, SCREW, HARDENED

American Steel & Wire Div., U. S. Steel Corp., Cleveland, Ohio.
Deniston Co., Chicago, Ill. (Pallet)
Dickson Weatherproof Nail Co., Evanston, Ill.
Hillwood Mfg. Co., Cleveland, Ohio. (Drive)
Independent Nail & Packing Co., Bridgewater, Mass.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Maze Co., W. H., Peru, Ill.
Parker-Kalon Div. of General American Transportation Corp., Clifton, N. J.

NAILS, STAINLESS STEEL

Anti-Corrosive Metal Products Co., Inc., Castleton-on-Hudson, N. Y.
Allmetal Screw Products Co., Inc., Garden City, N. Y.
American Steel & Wire Div., U. S. Steel Corp., Cleveland, Ohio.
Dickson Weatherproof Nail Co., Evanston, Ill.
Hassall, Inc., John, Westbury, L. I., N. Y.
Independent Nail & Packing Co., Bridgewater, Mass.
Star Stainless Screw Co., Paterson, N. J.

NAILS, ZINC COATED

American Steel & Wire Div., U. S. Steel Corp., Cleveland, Ohio.
Berger Div., Republic Steel Corp., Canton, O.
Bethlehem Steel Co., Bethlehem, Pa. (Steel)
Dickson Weatherproof Nail Co., Evanston, Ill.
Hassall, Inc., John, Westbury, L. I., N. Y.
Independent Nail & Packing Co., Bridgewater, Mass.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Maze Co., W. H., Peru, Ill.
Republic Steel Corp., Cleveland, Ohio.
Tennessee Coal & Iron Div., U. S. Steel Corp., Fairfield, Ala.

NAME PLATES

See Plates, Name

NIBBLERS

See Machines, Sheet Metal Working, Nibbling; Machines, Sheet Metal Working, Shears, Electric

NICKEL AND NICKEL ALLOY SHEETS

See Sheets, Metal, Special Metal

NIGHT COOLING FANS

See Fans, Propeller Type, Attic; Fans, Propeller Type, Window Exhaust

NOTCHERS

See Machines, Sheet Metal Working, Notching

NOTCHERS, DRIVE CLEAT

See Punches, Bench

NOZZLES, OIL BURNER

Benjamin Air Rifle Co., St. Louis, Mo.
Boston Machine Works Co., Lynn, Mass. (Also nozzle kit)
Delavan Mfg. Co., West Des Moines, Iowa.
Hago Products, Mountainside, N. J.
Harvey, Inc., Sid, Valley Stream, N. Y.
Hasko Utilities Co., New York, N. Y.
Monarch Mfg. Works, Inc., Philadelphia, Pa.
Steinen Mfg. Co., Wm., Newark, N. J.

NOZZLES, SPRAY, WATER

American Cooling Tower Co., Kansas City, Mo.
Austin Mfg. Corp., Austin, Tex.
Bahson Co., Winston-Salem, N. C.
Benjamin Air Rifle Co., St. Louis, Mo.
Binks Mfg. Co., Chicago, Ill.
Boston Machine Works Co., Lynn, Mass.
Buffalo Forge Co., Buffalo, N. Y.
Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
Century Engineering Corp., Cedar Rapids, Ia.
Chain Belt Co., Milwaukee, Wis.
Clarage Fan Co., Kalamazoo, Mich.
Delavan Mfg. Co., West Des Moines, Iowa.
Eddington Metal Specialty Co., Eddington, Pa.
HERRmidifier Co., Inc., Lancaster, Pa.
Maid-O'-Mist, Inc., Chicago, Ill.
Monarch Mfg. Works, Inc., Philadelphia, Pa.
Plummer Spray Equipment Co., Napoleon, Ohio.
Rege Mfg. Co., Rochester, N. Y.
Ross Sprinkler Co., Temple City, Calif.
Schutte and Koerting Co., Cornwells Heights, Bucks Co., Pa.
Spray Engineering Co., Burlington, Mass.
Spraying Systems Co., Bellwood, Ill.
Stearns Co., N. C., Shreveport, La.
Steinen Mfg. Co., Wm., Newark, N. J.
Supreme Electric Products Corp., Rochester, N. Y.
TOT Towers Co., Houston, Tex.
Tinnerman Products, Inc., Cleveland, O.
Water Cooling Equipment Corp., St. Louis, Mo.
Yarnall-Waring Co., Philadelphia, Pa.

NUTS, PRONGED

Fox Products Co., Philadelphia, Pa.
Tinnerman Corp., Geo. A., Cleveland, O.

ODOR ADSORBERS, AIR

See Adsorbers, Odor, for Duct Systems

ODOR ADSORBERS, FUEL OIL

See Deodorizers, Fuel Oil

OIL BURNER CONTROLS

See Controls, Control Systems

OIL BURNER PARTS

See Burner Parts, Oil

OIL BURNER REPAIR TOOLS

See Tools, Oil Burner Repair

OIL BURNERS

See Burners, Oil, Residential

OIL DEODORIZERS

See Deodorizers, Fuel Oil

OILS, FOR COATING VISCOUS AIR FILTERS

Air-Con Filter Corp., Memphis, Tenn.
Air-Maze Corp., Cleveland, O.
Easton R. S. Corp., Brooklyn, N. Y.
Esso Standard Div., Humble Oil & Refining Co., New York, N. Y.
Evans Corp., George, Moline, Ill.
Research Products Corp., Madison, Wis.

OIL STORAGE TANKS

See Tanks, Fuel Storage

ORNAMENTS, SHEET METAL

See Moldings and Trim, Ornamental

PACKAGED SYSTEMS

See Systems, Heating, Small Pipe

PACKING, ASBESTOS ROPE

Greene, Tweed & Co., North Wales, Pa.
Keasbey & Mattison Co., Ambler, Pa.
Raybestos-Manhattan, Inc., Passaic, N. J.
Wilson, Inc., Grant, Chicago, Ill.

PADS, EVAPORATIVE COOLER

See Mats, Evaporative Cooler

PAINT, ROOFING

American-Marietta Co., Chicago, Ill.
Arco Co., Cleveland, O.
Barrett Div., Allied Chemical Corp., New York, N. Y.
(Pitch base)
Blue Ridge Talc Co., Inc., Henry, Va.
Cabot, Inc., Samuel, Boston, Mass.
Calbar, Inc., Philadelphia, Pa.
Carey Mfg. Co., Philip, Cincinnati, Ohio.
Carter Paint Co., Inc., Liberty, Ind.
Champion Bronze Powder & Paint Co., Chicago, Ill.
Cheesman-Elliott Co., Inc., Brooklyn, N. Y.
Continental Products Co., Euclid, Ohio.
Coopers Creek Chemical Corp., West Conshohocken, Pa.
Debevoise Co., Brooklyn, N. Y.
du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
Fibreboard Paper Products Corp., San Francisco, Calif.
Flintkote Co., New York, N. Y.
Harrison Paint & Varnish Co., The Midland Industrial Div., Canton, O.
Horn Co., Inc., A. C., Long Island City, N. Y.
Illinois Bronze Powder Co., Inc., Chicago, Ill.
Inter-Coastal Paint Co., East St. Louis, Ill.
Iowa Paint Mfg. Co., Inc., Des Moines, Iowa. (Asphalt)
Lastik Paint Inc., Pittsburgh, Pa. (Asphalt & fiber)
Metropolitan Refining Co., Inc., Long Island City, N. Y.
National Mfg. Corp., Tonawanda, N. Y.
Nebel Mfg. Co., Cleveland, Ohio.
Ohmlac Paint & Refining Co., Chicago, Ill. (Asphalt)
Pittsburgh Plate Glass Co., Pittsburgh, Pa.
Presstite Engineering Co., St. Louis, Mo.
Reilly Tar & Chemical Corp., Indianapolis, Ind.
Ruberoid Co., New York, N. Y.
Rutland Fire Clay Co., Rutland, Vt. (Asphalt)

S. O. S. Products Co., Inc., Brooklyn, N. Y.
Sherwin-Williams Co., Cleveland, Ohio.
Sipe & Co., James B., Pittsburgh, Pa.
Sonneborn Sons, Inc., L., New York, N. Y.
Southport Paint Co., Div. Wesson Oil & Snowdrift Co., Inc., Savannah, Ga.
Tamm Industries Co., Chicago, Ill.
Thompson & Co., Oakmont, Pa.
Toledo Paint and Chemical Co., Toledo, O.
Tropical Paint Co., Cleveland, Ohio.
United Gilsonite Laboratories, Scranton, Pa. (Asphalt, aluminum)
Whitlam Mfg. Co., J. C., Wadsworth, O.

PAINT, SHEET METAL

Aluminum, Finish or Prime Coat, Heat Resistant, etc.

Allen Co., Inc., L. B., Schiller Park, Ill. (Heat resistant)
American-Marietta Co., Chicago, Ill. (Aluminum, prime & finish coat)
American Sand-Banum Co., Inc., Merrick, N. Y. (Aluminum)
Arco Co., The, Cleveland, O. (Aluminum, finish coat)
Babbitt Chemical Co. Inc., New Bedford, Mass. (Aluminum, finish coat)
Barreled Sunlight Paint Co., Providence, R.I. (Aluminum, finish coat)
Barrett Div., Allied Chemical Corp., New York, N. Y.
Blue Ridge Talc Co., Inc., Henry, Va.
Cabot, Inc., Samuel, Boston, Mass. (Aluminum, metal protecting)
Calbar, Inc., Philadelphia, Pa. (Aluminum, finish coat)
Carboline Co., St. Louis, Mo. (Aluminum, finish coat & prime coat)
Carey Co., Philip, Cincinnati, Ohio. (Aluminum)
Carter Paint Co., Inc., Liberty, Ind. (Finish coat)
Champion Bronze Powder & Paint Co., Chicago, Ill. (Self-spraying bombs, all colors)
Chase Products, Inc., Broadview, Ill.
Cheesman-Elliott Co., Inc., Brooklyn, N. Y.
Chemical Solvent Co., Birmingham, Ala.
Continental Products Co., Euclid, Ohio. (Aluminum, finish coat)
Coopers Creek Chemical Corp., West Conshohocken, Pa. (Aluminum, finish coat)
Cordo Chemical Corp., Norwalk, Conn. (Acid and alkali resistant coatings)
Corrosite Corp., Brooklyn, N. Y. (Plastic)
Debevoise Co., Brooklyn, N. Y. (Prime coat & finish coat)
du Pont de Nemours & Co., Inc., E. I., Wilmington, Del. (Aluminum, prime coat & finish coat)
Eastern States Paint & Varnish Co., Philadelphia, Pa. (Aluminum, prime and finish coat)
Fibreboard Paper Products Corp., San Francisco, Calif. (Aluminum, prime & finish coat)
Flintkote Co., New York, N. Y. (Aluminum)
Flood Co., Hudson, Ohio.
Galvicon Corp., New York, N. Y. (Prime coat, zinc)
Glidden Co., Cleveland, Ohio. (Aluminum finish coat, prime coat)
Hague & Co., Inc., Alfred, Div. of Lacquer & Chemical Corp., Brooklyn, N. Y. (Aluminum, finish coat)
Harrison Paint & Varnish Co., The Midland Industrial Div., Canton, O. (Aluminum, finish coat)
Horn Co., Inc., A. C., North Bergen, N. J. (Aluminum, finish coat)
Illinois Bronze Powder Co., Inc., Chicago, Ill. (Aluminum, heat resistant)
Industrial Metal Protectives, Dayton, O. (Prime coat)
Inter-Coastal Paint Co., East St. Louis, Ill. (Prime coat, finish coat & sound deadening)
Iowa Paint Mfg. Co., Inc., Des Moines, Ia.
Koppers Co., Inc., Pittsburgh, Pa. (Aluminum, finish coat)
Lastik Paint Inc., Pittsburgh, Pa. (Aluminum, prime coat & finish coat)
Lester Laboratories, Inc., Atlanta, Ga.
Metal & Thermit Corp., Rahway, N. J. (Aluminum, prime coat, finish coat)
Miracle Adhesives Corp., Bellmore, L.I., N. Y.
Morris Paint & Varnish Co., Omaha, Nebr.
National Lead Co., New York, N. Y. (Prime, aluminum, finish coat)
National Mfg. Corp., Tonawanda, N. Y. (Aluminum)
Nebel Mfg. Co., Cleveland, Ohio. (Aluminum, finish coat)
Ohmlac Paint & Refining Co., Chicago, Ill. (Finish coat)
Parker Rust Proof Co., Detroit, Mich. (Bonderized coating)
Petroleum Chemicals, Inc., Fresno, Calif.
Pittsburgh Plate Glass Co., Pittsburgh, Pa. (Aluminum, finish coat)

Quigley Co., Inc., New York, N. Y. (Aluminum, finish coat)
 Rust-Oleum Corp., Evanston, Ill. (aluminum, prime coat, finish coat & rust preventive coatings)
 Rutland Fire Clay Co., Rutland, Vt. (Finish coat, aluminum)
 S. O. S. Products Co., Inc., Brooklyn, N. Y. (Aluminum)
 Sherwin-Williams Co., Cleveland, Ohio. (Aluminum)
 Sipe & Co., James B., Pittsburgh, Pa. (Aluminum, prime coat & finish coat)
 Slip-On, Inc., Long Beach, N. Y. (Stainless steel)
 Sonneborn Sons, Inc., L., New York, N. Y. (Aluminum, finish coat)
 Southport Paint Co., Div. Wesson Oil & Snowdrift Co., Inc., Savannah, Ga.
 Speco, Inc., Cleveland, Ohio (Aluminum)
 Sprayon Products, Inc., Cleveland, O. (Spray)
 Tamms Industries Co., Chicago, Ill. (Finish coat)
 Tennessee Fabricating Co., Memphis, Tenn. (Finish coat)
 Thompson & Co., Oakmont, Pa. (Aluminum, finish coat)
 Toledo Paint and Chemical Co., Toledo, O.
 Tropical Paint Co., Cleveland, Ohio. (Aluminum, finish coat)
 Truscon Laboratories, Detroit, Mich. (Aluminum, prime coat & finish coat)
 United States Stoneware Co., New York, N. Y. (Aluminum, finish coat)
 West Chester Chemical Co., West Chester, Pa.
 Whitlam Mfg. Co., J. C., Wadsworth, O. (Aluminum, prime coat, finish coat)
 Wilbur & Williams Co., Norwood, Mass. (Aluminum, prime coat, finish coat)

PAINT SPRAY GUNS

See Guns, Spray, Paint

PANEL BOARDS

See Boards, Panel and Control

PANELS, CURTAIN WALL, METAL, PREFABRICATED

Consisting of Exterior Sheet, Insulating Material and Back Sheet

Bowman Steel Corp., Pittsburgh, Pa.
 Celotex Corp., Chicago, Ill.
 Cemenstone Corp., Neville Island, Pittsburgh, Pa.
 Davidson Enamel Products, Inc., Lima, O. (Porcelain)
 Englander Co., Inc., Plastics Div., Baltimore, Md. (Plastic)
 Erie Enameling Co., Erie, Pa.
 Ervite Corp., Erie, Pa. (Porcelain enamel)
 Fenestra Inc., Detroit, Mich.
 General Bronze Corp., Garden City, L.I., N. Y.
 Globe Hoist Co., Philadelphia, Pa.
 Haskelite Mfg. Div., Evans Products Co., Grand Rapids, Mich. (Plastic)
 Ingram-Richardson Mfg. Co., Beaver Falls, Pa.
 Inland Steel Products Co., Milwaukee, Wis.
 Kawneer Co., Niles, Mich.
 Knapp Bros. Mfg. Co., Cincinnati, O.
 Mahon Co., R. C., Detroit, Mich.
 Metalines, Inc., Rockford, Ill.
 Plasteel Products Corp., Washington, Pa.
 Republic Steel Corp., Cleveland, O.
 Reynolds Metals Co., Richmond, Va.
 Robertson Co., H.H., Pittsburgh, Pa.
 StranSteel Corp. Div., National Steel Corp., Ecorse, Mich.
 Truscon Div., Republic Steel Corp., Youngstown, O.
 Walker Supply & Mfg. Co., Ecorse, Mich.

PANELS, HEATING, ELECTRIC

Allied Precision Industries, Inc., Geneva, Ill.
 American-St. Gobain Corp., New York, N. Y. (Glass)
 Berko Electric Mfg. Corp., Jamaica, N. Y.
 Can Arm Corp., Champlain, N. Y.
 Continental Electric Equipment Co., Cincinnati, O.
 Marviray, Inc., Newark, N. J.
 Radiant Electric Heat Co., Centerville, Iowa
 Sun-Tron Corp., Chicago, Ill.
 Wiegand Co., Edwin L., Pittsburgh, Pa.

PANELS, PLASTIC, TRANSLUCENT MATERIAL

Alsynite Div. of Reichhold Chemicals, Inc., San Diego, Calif.
 American Insulator Corp., New Freedom, Pa.
 Barrett Div., Allied Chemical Corp., New York, N. Y.

Campco Div., Chicago Molded Products Corp., Chicago, Ill.
 Chemold Co., Santa Monica, Calif.
 Filon Plastics Corp., Hawthorne, Calif.
 Formica Co., Cincinnati, O.
 General Tire and Rubber Co., Marion, Ind.
 Kemlite Corp., Joliet, Ill.
 Laminated Sheet Products Corp., Norwood, Mass.
 Lasco Industries, Montebello, Calif.
 Marco Co., East Orange, N. J.
 Naugatuck Chemical Div., U. S. Rubber Co., Naugatuck, Conn.
 Pennsylvania Wire Glass Co., Philadelphia, Pa.
 Plasteel Products Corp., Washington, Pa.
 Quick Plastics, Div. of Quick Industries, Inc., Jackson, Mich.
 Resolite Corp., Zelenople, Pa.
 Roberston Co., H. H., Pittsburgh, Pa.
 Seiberling Rubber Co., Plastics Div., Newcomertown, O.
 Structoglas Inc., Subsidiary Brookpark, Inc., Cleveland, O.
 Wasco Products, Inc., Cambridge, Mass.

PANELS, PREFORMED, METAL SHEATHING

(For Building Exterior)

Bowman Steel Corp., Pittsburgh, Pa.
 Davidson Enamel Products, Inc., Lima, O. (Porcelain)
 Erie Enameling Co., Erie, Pa.
 Inland Steel Products Co., Milwaukee, Wis.
 Kawneer Co., Niles, Mich.
 Republic Steel Corp., Cleveland, O.
 Reynolds Metals Co., Richmond, Va.

PANELS, ROOF, METAL, PREFABRICATED

Consisting of Exterior Metal Sheet, Insulating Material and Backup Sheet

Hess Mfg. Co., Quincy, Pa. (Aluminum)

PANELS, WINDOW, AIR CONDITIONER

Rusco Div. of F. C. Russell Co., Pandora, O.

PAPER, ASBESTOS

Carey Mfg. Co., Philip, Cincinnati, Ohio.
 Ehret Magnesia Mfg. Co., Valley Forge, Pa.
 Johns-Manville, New York, N. Y.
 Kearsby & Mattison Co., Ambler, Pa.
 Nicolet Industries, Inc., Florham Park, N. J.
 Ruberoid Co., New York, N. Y.
 Standard Asbestos Mfg. Co., Chicago, Ill.
 Wilson, Inc., Grant, Chicago, Ill.

PAPER AND MEMBRANE, FOR CRAWL SPACE AND SUBFILL

See Barriers, Vapor

PARTITIONS, METAL, PREFABRICATED, MOVABLE

Biersach & Niedermeyer Co., Milwaukee, Wis.
 Hauserman Co., E. F., Cleveland, O.
 Penn Metal Co., Inc., Boston, Mass.

PARTS, REBUILT, FOR HEATING AND COOLING SYSTEMS

Adams Co., Dubuque, Iowa.
 Brauer Supply Co., St. Louis, Mo.
 Central Furnace & Stove Repair Co., St. Louis, Mo.
 Cincinnati Stamping & Furnace Co., Cincinnati, Ohio
 Eselgroth & Co., Roselle, N. J.
 Foote Foundry Co., J. B., Fredericktown, Ohio.
 Harvey, Inc., Sid, Valley Stream, N. Y. (Controls and burners)
 Livingston, Inc., Marshall, Mich.
 Metzner Stove and Furnace Supply Co., Kansas City, Mo.
 Mt. Vernon Furnace & Mfg. Co., Mt. Vernon, Ill.
 National Foundry & Furnace Co., Dayton, Ohio.

PASTE, ASBESTOS PAPER

Keasbey & Mattison Co., Ambler, Pa.
Nicolet Industries, Inc., Florham Park, N. J.
Rutland Fire Clay Co., Rutland, Vt.
Standard Asbestos Mfg. Co., Chicago, Ill.
Wilson, Inc., Grant, Chicago, Ill.

PATTERNS AND BLUE PRINTS

Elbows, Skylights, Fittings, Etc.

Gray, G. L., New Haven, Conn.

PERFORATED METAL

See Metals, Perforated, Sheet and Plate

PERIMETER BASEBOARD RETURN GRILLES

See Grilles, Return Air, Baseboard

PERIMETER DUCT FITTINGS

See Duct Fittings

PERIMETER REGISTERS

See Diffusers, Air

PILLOW BLOCKS

See Bearings, Pillow Block

PILOT LIGHTS

See Controls, Pilots, Gas Burner

PIPE ANCHORS

See Anchors, Duct and Pipe

PIPE AND FITTINGS, CONDUCTOR

Ajax Furnace Fitting Co., Div. Cincinnati Sheet Metal & Roofing Co., Cincinnati, Ohio.
Alabama Metal Lath Co., Birmingham, Ala. (Steel & copper)
Aluminum Co. of America, Pittsburgh, Pa. (Aluminum)
American Metal Products, Los Angeles, Calif. (Alum.)
Argo Plastic Products, Cleveland, O. (Plastic)
Barnes Metal Products Co., Chicago, Ill. (Zinc, aluminum, galvanized and copper)
Berger Bros. Co., Philadelphia, Pa.
Berger Div., Republic Steel Corp., Canton, O. (Galvanized, terne, stainless, copper)
Braden Mfg. Co., Inc., Terre Haute, Ind.
Char-Gale Mfg. Co., Anoka, Minn.
Chase Brass & Copper Co., Inc., Waterbury, Conn. (Copper)
Cincinnati Elbow Co., Cincinnati, O. (Copper, aluminum, stainless and galvanized steel)
Conner Mfg. Co., Louisville, Ky.
Crucible Steel Co. of America, Pittsburgh, Pa. (Stainless, titanium)
Dieckmann Co., Ferdinand, Cincinnati, O. (Aluminum, copper)
Enderle, Inc., Ltd., Frank X., Los Angeles, Calif.
Galvan Mfg. Co., New Albany, Ind. (Steel, copper, aluminum, stainless steel, terne)
Gary Steel Products Corp., Gary, Ind. (Galvanized)
Globe Iron Roofing & Corrugating Co., Newport, Ky.
Gray Metal Products, Inc., Rochester, N. Y.
Hussey & Co., C. G., Pittsburgh, Pa. (Copper)
Inland Steel Products Co., Milwaukee, Wis. (Copper, galvanized, aluminum)
Johns-Manville, New York, N. Y.
Klauser Mfg. Co., Dubuque, Iowa. (Galvanized steel)
Labeled Metal Products Corp., Broadview, Ill. (Galvanized steel)
La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis. (Galv. steel)

Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif. (Galv.)
Matthiessen & Hegeler Zinc Co., La Salle, Ill. (Zinc)
Miller & Doing, Brooklyn, N. Y. (Ornamental)
Moncrief Lenoir Mfg. Co., Houston, Tex. (Steel, aluminum, copper)
National Elbow and Fittings Corp., Long Island City, N. Y. (Galvanized, aluminum, copper)
New Delphos Mfg. Co., Delphos, Ohio. (Galv. steel)
Northwest Metal Products, Inc., Seattle, Wash. (Galvanized)
Obdyke, Inc., B. P., Philadelphia, Pa. (Copper, galv. & aluminum)
Penn Supply & Metal Corp., Philadelphia, Pa. (Alum., copper, galv.)
Permanent Products, Inc., St. Paul, Minn. (Glass fiber)
Reeves Steel & Mfg. Co., Div. of Empire-Reeves Steel Corp., Dover, Ohio. (Galv. steel)
Republic Steel Corp., Cleveland, O. (Steel)
Reynolds Metals Co., Richmond, Va. (Aluminum)
Riggin Metal Products, Inc., Kankakee, Ill.
Roofing & Supply Co., Chattanooga, Tenn. (Galvanized steel, copper)
Royal-Apex Mfg. Co., Inc., Brooklyn, N. Y. (Galvanized, copper and aluminum)
Schechter Bros. Co., Philadelphia, Pa. (Galv. steel & copper)
Sheet Metal Mfg. Co., Inc., Brooklyn, N. Y. (Aluminum, copper, galvanized steel & zinc)
Sioux Steel Co., Sioux Falls, S. Dak.
Standard Metal Fabricating Co., Omaha, Nebr. (Galvanized)
Thor Metal Products Co., Inc., Syracuse, N. Y. (Galv. & copper)
Tiffin Art Metal Co., Tiffin, Ohio (Galv., copper, stainless steel, aluminum)
Union Sheet Metal Supply Co., Cleveland, O. (Galvanized)
United Sheet Metal Co., Inc., Columbus, O. (Galvanized, copper, aluminum)
Wallace Co., William, Metailbestos Div., Belmont, Calif. (Galvanized, aluminum and copper)
Wheeling Corrugating Co., Wheeling, W. Va. (Galv. steel)
Youngstown Sheet & Tube Co., Youngstown, O. (Steel)

PIPE AND FITTINGS, FURNACE

Pipe, Elbows, Tees, Collars, Cleanout Caps, Draw Bands, Reducers, Angles, Etc.

Acer & Whedon, Inc., Medina, N. Y.
Acme Furnace Fitting Co., Chicago, Ill.
Acme Mfg. Co., Philadelphia, Pa.
Adelta Mfg. Co., Inc., Philadelphia, Pa. (Galv. & black)
Airello Furnace Pipe Co., Brighton, Mich.
Ajax Furnace Fitting Co., Div. Cincinnati Sheet Metal & Roofing Co., Cincinnati, Ohio.
American Metal Products, Los Angeles, Calif.
Armstrong Fittings Co., Des Moines, Ia.
Badger Furnace Pipe Co., Madison, Wis.
Braden Mfg. Co., Inc., Terre Haute, Ind.
Buckeye Mfg. Inc., Columbus, Ohio.
Champion Furnace Pipe Co., Peoria, Ill.
Char-Gale Mfg. Co., Anoka, Minn.
Cincinnati Stamping & Furnace Co., Cincinnati, Ohio.
Conner Mfg. Co., Louisville, Ky.
Corbman Bros., Inc., Philadelphia, Pa.
Creamer Industries, Inc., Maxwell Steel Div., Fort Worth, Tex.
Detroit Safety Furnace Pipe Co., Detroit, Mich.
Enderle, Inc., Ltd., Frank X., Los Angeles, Calif.
Excelsior Steel Furnace Co., Chicago, Ill.
Famous Furnace Co., Cleveland, O.
Felter Co., John, Houston, Tex.
Francer Mfg. & Supply Corp., East Weymouth, Mass. (Elbows)
Gary Steel Products Corp., Gary, Ind.
Grand Island Furnace & Supply Co., Grand Island, Nebr.
Green Colonial Inc., Des Moines, Iowa.
Hart & Cooley Mfg. Co., Holland, Mich. (Gas vent)
Hawthorne Mfg. Corp., Hawthorne, Pa.
Henry Furnace Co., Medina, Ohio.
Home Furnace Co., Holland, Mich.
Hugert Mfg. Co., Medina, Ohio.
Inland Steel Products Co., Milwaukee, Wis.
International Heater Co., Utica, N. Y.
J & J Sheet Metal Co., Warren, Mich.
Jacks-Evans Mfg. Co., St. Louis, Mo.
Juniper Elbow Co., Inc., Middle Village, L.I., N. Y.
Keith Furnace Co., Des Moines, Iowa.
Krauser-Boyd, Inc., North Tonawanda, N. Y.
Labeled Metal Products Corp., Broadview, Ill.
La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis.
Lennox Industries Inc., Marshalltown, Iowa.

Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif. (Galv.)

Lyman Sheet Metal Co., Inc., Southampton, Hampshire Co., Mass.

Made-Rite Co., Inc., Newport, Ky.

Maple City Furnace Co., Monmouth, Ill.

Maurlee Co., Inc., Woodbury Hts., N. J.

Metal Fabricators, Inc., Charlotte, N. C.

Meyer & Bro. Co., F., Peoria, Ill.

Mirror Patented Stove Pipe Co., Hartford, Conn.

Mitchell Metal Works, Mike, Kosciusko, Miss.

Modern Metals, Inc., Houston, Tex.

Moncrief Furnace Co., Atlanta, Ga.

Morrison Steel Products, Inc., Buffalo, N. Y.

Northwest Metal Products, Inc., Seattle, Wash. (Black & galv.)

Olsen Mfg. Co., The C. A., Elyria, O.

Peerless Corp., Indianapolis, Ind.

Penn Supply & Metal Corp., Philadelphia, Pa. (Copper and aluminum)

Perfection Furnace Pipe Co., Toledo, Ohio.

Premier Furnace Co., Dowagiac, Mich.

Quality Heating Supply Co., Cincinnati, O.

Quass & Sons, Chas. E., Canton, O.

Ralph Mfg. Co., Inc., Wadsworth, O.

Reeves Steel & Mfg. Co., Div. of Empire-Reeves Steel Corp., Dover, Ohio.

Riggin Metal Products, Kankakee, Ill.

Roofing & Supply Co., Chattanooga, Tenn. (Galvanized steel)

Round Oak Div., Peerless Corp., Dowagiac, Mich.

Ryniker Steel Products Co., Billings, Mont. (Aluminum and galvanized)

St. Clair Metal Products Co., Cleveland, Ohio.

Schechter Bros. Co., Philadelphia, Pa.

Sheet Metal Mfg. Co., Youngstown, O.

Sheet Metal Mfg. Co., Inc., Brooklyn, N. Y.

Sheet Metal Specialty Div., Follansbee Steel Corp., Follansbee, W. Va.

Snappy Inc., Detroit Lakes, Minn.

Southbridge Roofing Co., Inc., Southbridge, Mass.

Standard Metal Fabricating Co., Omaha, Nebr.

Steel City Furnace Corp., Springdale, Pa.

Stratton & Terstegge Co., Louisville, Ky.

Thor Metal Products Co., Inc., Syracuse, N. Y.

Tierney Rotor Ventilator Co., Minneapolis, Minn.

Tiffin Art Metal Co., Tiffin, O.

Tri-State Heating Supply, Inc., Ft. Wayne, Ind.

Union Sheet Metal Supply Co., Cleveland, O.

United States Register Co., Battle Creek, Mich.

Victaulic Co. of America, Elizabeth, N. J.

Wallace Co., William, Metalbestos Div., Belmont, Calif.

Waverly Heating Supply Co., Beverly, Mass.

Westprest Inc., Amarillo, Tex.

Wheeling Corrugating Co., Wheeling, W. Va.

Wheelock Co., Geo. F., The, Birmingham, Ala.

Wilder Products Co., Springfield, Ohio.

Williamson Co., The, Cincinnati, O. (Aluminum or galvanized)

PIPE JOINT TAPE

See Tape, Duct, Adhesive

PIPE LOCK FORMERS

See Machines, Lock Forming

PIPE, SPIRAL, FOR HIGH VELOCITY AIR SYSTEMS

See Ducts, Spiral, Welded

PITTSBURGH LOCK FORMING MACHINES

See Machines, Pittsburgh Lock Forming

PITTSBURGH LOCK ROLLERS

See Seamers, Electric, Pittsburgh Lock

PLASTIC SHEETS

See Sheets, Plastic, For Ducts and Hoods

PLASTIC, POWDERS AND RESINS (BASIC MATERIALS)

Barrett Div., Allied Chemical Corp., New York, N. Y.

Chemical Sales Div., Firestone Plastics Co., Pottstown, Pa.

Dow Chemical Co., Midland, Mich.

Dow Corning Corp., Midland, Mich.

du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.

Durez Plastics Div., Hooker Chemical Corp., North Tonawanda, N. Y.

Eastman Chemical Products, Inc., Subsidiary, Eastman Kodak Co., Kingsport, Tenn.

Firestone Plastics Co., Pottstown, Pa.

General Electric Co., Chemical Materials Dept., Pittsfield, Mass. (Phenolic and polycarbonate)

General Tire & Rubber Co., Akron, O.

Goodrich Chemical Co., B. F., Cleveland, O.

Interchemical Corp., Finishes Div., Newark, N. J. (Polyester resins)

Koppers Co., Inc., Tar Products Div., Pittsburgh, Pa.

Monsanto Chemical Co., Plastics Div., Springfield, Mass.

Naugatuck Chemical Div., U. S. Rubber Co., Naugatuck, Conn.

Pittsburgh Plate Glass Co., Pittsburgh, Pa.

Plastics Div., Eastman Chemical Products, Inc., Kingsport, Tenn. (Acetate, butyrate, propionate, polypropylene, polyethylene)

Polymer Corp., Reading, Pa.

Union Carbide Plastics Co., Div. of Union Carbide Corp., New York, N. Y.

United States Rubber Co., New York, N. Y.

PLASTIC TRANSLUCENT PANELS

See Panels, Plastic, Translucent Material

PLASTIC TUBING

See Tubing, Fittings and Valves, Plastic

PLATES, ALLOY

Allegheny Ludlum Steel Corp., Pittsburgh, Pa. (Stainless steel)

Aluminum Co. of America, Pittsburgh, Pa.

Anaconda American Brass Co., Waterbury, Conn. (Copper)

Armco Steel Corp., Middletown, Ohio. (Stainless steel)

Belmont Smelting & Refining Wks., Inc., Brooklyn, N. Y. (Zinc, lead)

Bethlehem Steel Co., Bethlehem, Pa. (Steel)

Byers Co., A. M., Pittsburgh, Pa. (Stainless steel)

Chase Brass & Copper Co., Inc., Waterbury, Conn. (Copper and its alloys)

Crucible Steel Co. of America, Pittsburgh, Pa. (Stainless and high alloy)

Hussey & Co., C. G., Pittsburgh, Pa. (Brass and bronze)

Inland Steel Co., Chicago, Ill.

International Nickel Co., Inc., New York, N. Y. (Nickel & nickel alloys)

Jessop Steel Co., Washington, Pa. (Stainless)

Jones & Laughlin Steel Corp., Pittsburgh, Pa. (Heat treated)

Kaiser Aluminum & Chemical Sales, Inc., Oakland, Calif. (Aluminum)

Lukens Steel Co., Coatesville, Pa. (Nickel, chromium, copper, manganese, molybdenum, alloys)

Republic Steel Corp., Cleveland, O. (Steel)

Revere Copper & Brass Inc., New York, N. Y. (Copper & copper base)

Reynolds Metals Co., Richmond, Va. (Aluminum)

Sharon Steel Corp., Sharon, Pa. (Stainless)

United States Steel Corp., Pittsburgh, Pa.

Wickwire Spencer Steel Div., Colorado Fuel & Iron Corp., New York, N. Y. (Stainless)

Youngstown Sheet & Tube Co., Youngstown, Ohio.

PLATES, HUMIDIFIER

Auto-Flo Corp., Detroit, Mich.

Automatic Humidifier Co. Div., Standard Mfg. Co., Cedar Falls, Ia.

Cleveland Humidifier Co., Cleveland, O.

Econo-Matic Products Co., Inc., Detroit, Mich.

Fairway Division, Detroit, Mich.

General Filters, Inc., Novi, Mich.

Maid-O'-Mist Inc., Chicago, Ill.

Molded Products Div., Village Guild, Inc., Portville, N. Y.

Skuttle Mfg. Co., Milford, Mich.
Viking Air Products Div. of The Lau Blower Co., Cleveland,
O.

PLATES, NAME

Alan Wood Steel Co., Conshohocken, Pa.
Allied Decals, Inc., Cleveland, O.
Anodyne, Inc., Div. North Shore Nameplate, N. Miami Beach,
Fla.
Croname, Inc., Chicago, Ill.
Desk-Sign Mfg. Co., Philadelphia, Pa.
Etched Products Co., Long Island City, N. Y.
Metalcraft, Inc., Mason City, Ia.
National Lock Co., Rockford, Ill.
Seton Name Plate Co., Inc., New Haven, Conn.
Southern Name Plate Shop, New Orleans, La.

PLATES, STEEL

Armco Steel Corp., Middletown, Ohio.
Bethlehem Steel Co., Bethlehem, Pa.
Byers Co., A. M., Pittsburgh, Pa. (Alloy, stainless)
Crucible Steel Co. of America, Pittsburgh, Pa.
Eastern Stainless Steel Corp., Baltimore, Md. (Stainless)
Granite City Steel Co., Granite City, Ill.
Inland Steel Co., Chicago, Ill.
International Steel Co., Evansville, Ind.
Jessop Steel Co., Washington, Pa.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Lukens Steel Co., Coatesville, Pa.
Republic Steel Corp., Cleveland, O.
Sharon Steel Corp., Sharon, Pa.
Tennessee Coal & Iron Div., U. S. Steel Corp., Fairfield, Ala.
United States Steel Corp., Pittsburgh, Pa.
Wickwire Spencer Steel Div., Colorado Fuel & Iron Corp., New
York, N. Y.
Youngstown Sheet & Tube Co., Youngstown, Ohio.

PLATES, WROUGHT IRON

Byers Co., A. M., Pittsburgh, Pa.

PLENUM CHAMBERS, PREFABRICATED

See Chambers, Plenum, Prefabricated

POLISHERS

See Buffers, Grinders, Polishers and Sanders

POWER DRAFT UNITS

See Units, Power Draft

POWER GROOVERS

See Machines, Sheet Metal Working, Grooving

POWER SHEARS

See Machines, Sheet Metal, Shears

PRECIPITATORS, ELECTROSTATIC

See Cleaners, Air, Electronic

PREFABRICATED CHIMNEYS

See Chimneys, Prefabricated

PREFABRICATED DUCTS

See Ducts, Prefabricated

PREFABRICATED PLENUM CHAMBERS

See Chambers, Plenum, Prefabricated

PRESSES

See Machines, Sheet Metal, Presses

PROPELLER FANS

See Fans, Propeller Type

PROTECTIVE COATING

See Waterproofing; Coatings, Metal Protective

PROTECTIVE MATERIALS FOR POLISHED METAL SURFACES

See Materials, Protective, for Polished Metal Surfaces

PROTECTORS, WINDOW AIR CONDITIONER

Bemis Bro. Bag Co., St. Louis, Mo.
Bogene, Inc., New York, N. Y.
Budlew Products Co., Chicago, Ill.
Campbell Mfg. Co., Inc., Dallas, Tex.
International Covers for Air Conditioners Corp., New York,
N. Y.
Tulsa Canvas Products Co., Inc., Tulsa, Okla.
Wickford Products, Inc., Bronx, N. Y.

PSYCHROMETERS, SLING AND HAND ASPIRATED

Airserco Mfg. Co., Pittsburgh, Pa.
Bacharach Industrial Instrument Co., Pittsburgh, Pa.
Central Scientific Co., Chicago, Ill.
Daystrom-Weston Sales Div., Daystrom Inc., Newark, N. J.
Foxboro Co., Foxboro, Mass.
Friez Instrument Div., Bendix Aviation Corp., Baltimore, Md.
G. M. Mfg. Co., New York, N. Y.
General Scientific Equipment Co., Philadelphia, Pa.
H-B Instrument Co., Philadelphia, Pa.
Hill & Co., E. Vernon, Lake Geneva, Wis.
Johnson Service Co., Milwaukee, Wis.
Moeller Instrument Co., Richmond Hill, N. Y.
Palmer Thermometers, Inc., Norwood, Cincinnati, Ohio.
Philadelphia Thermometer Co., Philadelphia, Pa.
Precision Thermometer & Instrument Co., Philadelphia, Pa.
Taylor Instrument Companies, Rochester, N. Y.
Weksler Instruments Corp., Freeport, N. Y.

PULLEYS, FAN AND MOTOR

American Pulley Co., Philadelphia, Pa.
Arizona Maintenance Co., Tucson, Ariz.
Barke Products, Inc., Bay Village, O.
Browning Mfg. Co., Inc., Maysville, Ky.
Chicago Die Casting Mfg. Co., Chicago, Ill.
Congress Drives, Div. Tann Corp., Detroit, Mich.
Dayton Industrial Products Co., Melrose Park, Ill.
Dodge Mfg. Corp., Mishawaka, Ind.
Durkee-Atwood Co., Minneapolis, Minn.
Gates Rubber Co., Denver, Colo.
Goldens' Foundry & Machine Co., Columbus, Ga.
Hi-Lo Mfg. Co., Minneapolis, Minn. (Variable pitch)
Jones Machinery Div., Hewitt-Robins Inc., Chicago, Ill.
Lau Blower Co., Dayton, Ohio.
Lewellen Mfg. Co., Columbus, Ind. (Variable speed)
Lovejoy Flexible Coupling Co., Chicago, Ill.
Maurey Mfg. Corp., Chicago, Ill.
Mitchell Co., Inc., John E., Dallas, Texas.
Pyott Foundry & Machinery Co., Chicago, Ill.
Spun Steel Div., Automatic Steel Products, Inc., Canton, Ohio.
Utility Fan Corp., Div. of Utility Appliance Corp., Los Ange-
les, Calif.
Wood's Sons Co., T. B., Chambersburg, Pa.
Zatko Metal Products Co., Euclid, O.

PULLEYS, FURNACE CHAIN

Hart & Cooley Mfg. Co., Holland, Mich.
United States Register Co., Battle Creek, Mich.

PUMP COMPOUNDS

See Compounds, Winter Protective, Pump

PUMPS, CONDENSATE

*For Removing Condensation from Cooling Coils
and Air Conditioning Units*

Arizona Maintenance Co., Tucson, Ariz.
Ashcraft Co., J. P., Dallas, Tex.
Beach-Russ Co., New York, N. Y.
Burn-Rite Products Co., Yonkers, N. Y.
Eastern Industries Inc., Hamden, Conn.
Eddington Metal Specialty Co., Eddington, Pa.
Gelber & Sons, Inc., Chicago, Ill.
Gorman-Rupp Industries, Inc., Belleville, O.
Kesco Products, Springfield Gardens, N. Y.
Little Giant Pump Co., Div. of Little Giant Vaporizer Co., Inc.,
Oklahoma City, Okla.
March Mfg. Co., Skokie, Ill.
Midwest Pump Co., Kansas City, Kans.
Peerless of America, Inc., Chicago, Ill.
Penberthy Mfg. Co., Detroit, Mich.
Standard Electric Mfg. Co., Inc., West Berlin, N. J.
Union Pump Co., Battle Creek, Mich.
Zeno Plastics Co., Gardena, Calif.

PUMPS, EVACUATING, NON-PORTABLE

For Dehydrating Refrigerating Equipment

Central Scientific Co., Chicago, Ill.
Kinney Vacuum Div., The New York Air Brake Co., Boston,
Mass.

PUMPS, EVACUATING, PORTABLE

For Service and Installation Work

Airserco Mfg. Co., Pittsburgh, Pa.
Beach-Russ Co., New York, N. Y.
Bell & Gossett Co., Morton Grove, Ill.
Central Scientific Co., Chicago, Ill.
Drying Systems Co., Chicago, Ill.
Vehicle Products Div., Robinair Mfg. Corp., Montpelier, O.

PUMPS, FUEL, OIL BURNER

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
Barclay, Inc., Robt., Chicago, Ill.
Kraissl Co., Inc., Hackensack, N. J.
Roper Corp., Geo. D., Rockford, Ill.
Silent-Flame Products, Blue Point Electronics Corp., Blue Point,
L. I., N.Y.
Sundstrand Engineering Co., Rock Island, Ill.
Sundstrand Hydraulics, Rockford, Ill.
Tuthill Pump Co., Chicago, Ill.
Union Pump Co., Battle Creek, Mich.
Viking Pump Co., Cedar Falls, Iowa.

PUMPS, FUEL OIL, FOR OVERHEAD SYSTEMS

See Systems, Fuel Oil Pumping

PUMPS, RECIRCULATING, EVAPORATIVE COOLER

Buffalo Forge Co., Buffalo, N. Y.
Burn-Rite Products Co., Yonkers, N. Y.
Essick Mfg. Co., Los Angeles, Calif.
Fairbanks, Morse & Co., Chicago, Ill.
G & S Mfg. Co., Phoenix, Ariz.
International Metal Products Div., McGraw-Edison Co.,
Phoenix, Ariz.
Iabsco Pump Co., Costa Mesa, Calif.
Kesco Products, Springfield Gardens, N. Y.
Kraissl Co., Inc., Hackensack, N. J.
Little Giant Pump Co., Div. of Little Giant Vaporizer Co., Inc.,
Oklahoma City, Okla.
Midwest Pump Co., Kansas City, Kans.
Morey, Dan, Los Angeles, Calif.
Ruthman Machinery Co., Cincinnati, O.

Standard Electric Mfg. Co., Inc., West Berlin, N. J.
Steam-O-Matic Corp., Sedalia, Mo.
Union Pump Co., Battle Creek, Mich.
Wright-Temp Mfg. Co., Phoenix, Ariz.
Yeomans Bros. Co., Melrose Park, Ill.

PUMPS, REFRIGERANT TRANSFER, FOR FILLING SERVICE CYLINDERS

Belt-Ice Corp., Seattle, Wash.
Blackmer Pump Co., Grand Rapids, Mich.
Gelber & Sons, Inc., Chicago, Ill.
Heatron, Inc., York, Pa.
Kerotest Mfg. Co., Pittsburgh, Pa.
Kinney Vacuum Div., New York Air Brake Co., Boston,
Mass.
Kohlenberger Engineering Corp., Fullerton, Calif.
Robinair Mfg. Corp., Sub. Kent-Moore Organization, Inc.,
Montpelier, O.
Roth Co., Roy E., Rock Island, Ill.

PUNCHES AND SHEARS COMBINED, LEVER OPERATED

Berkroy Products Co., Los Angeles, Calif.
Buffalo Forge Co., Buffalo, N. Y.
Cleveland Punch & Shear Works Co., Cleveland, Ohio.
Diesel Power, Inc., Sharon, Pa.
Heinrich Tools, Inc., Racine, Wis.
Hendley & Whittemore Co., Beloit, Wis.
Kidder Mfg. Co., Inc., J. F., Burlington, Vt.
Niagara Machine & Tool Works, Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Thor Tool & Die Co., San Leandro, Calif.

PUNCHES, BENCH

Allen Industries, Alva, Clinton, Mo.
Berkroy Products Co., Los Angeles, Calif.
Buffalo Forge Co., Buffalo, N. Y.
Chase Mfg. Co., Pasadena, Calif.
Diamond Machine Tool Corp., Pico-Rivera, Calif.
Duro-Dyne Corp., Farmingdale, N. Y.
Heinrich Tools, Inc., Racine, Wis.
Hendley & Whittemore Co., Beloit, Wis.
Kidder Mfg. Co., J. F., Burlington, Vt.
Merchandising & Mfg. Associates, Inc., Lancaster, Pa.
Niagara Machine & Tool Works, Buffalo, N. Y.
O'Neil-Irwin Mfg. Co., Lake City, Minn.
Peck, Stow & Wilcox Co., Southington, Conn.
Punch Products Corp., Buffalo, N. Y.
Thor Tool & Die Co., San Leandro, Calif.
Whitney Mfg. Co., W. A., Rockford, Ill.
Whitney Metal Tool Co., Rockford, Ill.

PUNCHES, HAND

Berkroy Products Co., Los Angeles, Calif.
Buffalo Forge Co., Buffalo, N. Y.
Cleveland Punch & Shear Works Co., Cleveland, Ohio.
Crescent Tool Co., Jamestown, N. Y.
Damascus Steel Products Corp., Rockford, Ill.
Davis & Son Machine Works, Los Angeles, Calif. (Button
punch)
Diamond Machine Tool Corp., Pico-Rivera, Calif.
Duro-Dyne Corp., Farmingdale, N. Y.
H-P Tool Mfg. Corp., Philadelphia, Pa.
Hendley & Whittemore Co., Beloit, Wis.
Kidder Mfg. Co., J. F., Burlington, Vt.
Mephisto Tool Co., Inc., Hudson, N. Y.
Niagara Machine & Tool Works, Buffalo, N. Y.
Osborne & Co., C. S., Harrison, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Reiner & Campbell Co., Inc., Newark, N. J.
Sargent & Co., Hand Tool Div., New Haven, Conn.
Snap-on Tools Corp., Kenosha, Wis.
Thor Tool & Die Co., San Leandro, Calif.
Whitney Mfg. Co., W. A., Rockford, Ill.
Whitney Metal Tool Co., Rockford, Ill.
Williams and Co., J. H., Buffalo, N. Y.

PUNCHES, POWER

See Machines, Sheet Metal Working, Punches

PURIFIERS, AIR

(Combination of Air Filter, Humidifier and Odor Remover)

Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.

QUADRANTS, DAMPER

See Regulators, Duct Damper Sets; Hardware, Duct Fitting

RACKS, SHEET STORAGE

Palmer-Shile Co., Detroit, Mich.

RAILS, LOUVER

Cain Mfg. Inc., Birmingham, Ala.

RAILS, VANE, FOR DUCTS

Airo Industries, Los Angeles, Calif.
Cain Mfg. Inc., Birmingham, Ala.
Duro-Dyne Corp., Farmingdale, N. Y.
Elgen Mfg. Corp., Long Island City, N. Y.

RAIN CARRYING EQUIPMENT

See Gutters; Gutter Accessories; Pipe and Fittings, Conductor

REBUILT SHEET METAL WORKING MACHINES

See Machinery, Sheet Metal, Rebuilt and Used

RECESSED WALL HEATERS

See Furnaces, Forced Warm Air, Wall; Furnaces, Warm Air, Gravity

RECORDERS, HUMIDITY, PORTABLE

Bristol Co., Waterbury, Conn.
Daystrom-Weston Sales Div., Daystrom Inc., Newark, N. J.
Foxboro Co., Foxboro, Mass.
Friez Instrument Div., Bendix Aviation Corp., Baltimore, Md.
General Controls Co., Glendale, Calif.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Moeller Instrument Co., Richmond Hill, N. Y.
Newmack Corp., Elyria, O.
Palmer Thermometers, Inc., Norwood, Cincinnati, O.
Taylor Instrument Companies, Rochester, N. Y.
United States Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.
Weksler Instruments Corp., Freeport, N. Y.

RECORDERS, TEMPERATURE, PORTABLE

Bacharach Industrial Instrument Co., Pittsburgh, Pa.
Bailey Meter Co., Cleveland, Ohio.
Bristol Co., Waterbury, Conn.
Daystrom-Weston Sales Div., Daystrom Inc., Newark, N. J.
Dickson Co., Chicago, Ill.
Foxboro Co., Foxboro, Mass.
Friez Instrument Div., Bendix Aviation Corp., Baltimore, Md.
General Controls Co., Glendale, Calif.
Heat-Timer Corp., New York, N. Y.
Leeds & Northrup Co., Philadelphia, Pa.
Manning, Maxwell & Moore, Inc., Stratford, Conn.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Moeller Instrument Co., Richmond Hill, N. Y.
Palmer Thermometers, Inc., Cincinnati, Ohio.
Taylor Instrument Companies, Rochester, N. Y.

United States Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.

Weksler Instruments Corp., Freeport, N. Y.

Wheelco Instruments Div., Barber-Colman Co., Rockford, Ill.

RECOVERERS, HEAT, SMOKE PIPE

Air Conditioning Engineering Co., Cambridge, Mass.
Cary Mfg. Co., Waupaca, Wis.
Gerhardt, W. F., Richmond, Va.
Hamden Heating Supply, Springfield, Mass.
Heat Reclaimer Mfg. Div., Dolin Metal Sales Corp., Brooklyn, N. Y.
Ro-An Heat Reclaimer Corp., Amityville, N. Y.
Safety Stack Heater Co., Brooklyn, N. Y.
Therm Gas Generator Co., Inc., Seattle, Wash.
Therm Oil Burner Co., Seattle, Wash.

RECOVERY UNITS, HEAT, AIR TO AIR

See Units, Heat Recovery, Air to Air

REELS AND CRADLES, SHEET METAL

Dahlstrom Machine Works, Chicago, Ill.
Littell Machine Co., F. J., Chicago, Ill.

REFRACTORIES

Armstrong Cork Co., Lancaster, Pa. (Insulating)
Babcock & Wilcox Co., Refractories Div., New York, N. Y.
Botfield Refractories Co., Philadelphia, Pa.
Eselgroth & Co., Roselle, N. J.
Green Fire Brick Co., A. P., Mexico, Mo. (All types fire clay)
Iron-Hide Sales Co., Matawan, N.J.
Johns-Manville, New York, N. Y.
Kolb Refractories Co., Philadelphia, Pa.
Monogram Products Co., Inc., Philadelphia, Pa.
Pyrolite Products Co., Cleveland, Ohio.
Quigley Co., Inc., New York, N. Y.
Ramtite Co., Div. S. Obermayer Co., Chicago, Ill.
Refractory & Insulation Corp., New York, N. Y.
Rehm-Schiess Corp., Jamaica, N. Y. (Radiant)
Rex Roto Corp., Walled Lake, Mich.
Robinson Clay Product Co., Akron, O.
Robinson Insulation Co., Great Falls, Mont. (Vermiculite)
Rutland Fire Clay Co., Rutland, Vt. (Retort Cement)
S O S Products Co., Inc., Brooklyn, N. Y.
Saureisen Cements Co., Pittsburgh, Pa.
Shenango Refractories Co., New Castle, Pa.
Standard Fuel Engineering Co., Detroit, Mich.
United States Stoneware Co., New York, N. Y.

REFRIGERANT LINES, FLEXIBLE CONNECTIONS

See Absorbers, Vibration, for Refrigerant Lines

REFRIGERANTS

American Potash & Chemical Corp., Los Angeles, Calif.
Ansul Chemical Co., Refrigeration Div., Marinette, Wis.
(Methyl chloride, sulphur dioxide)
Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
Dow Chemical Co., The, Midland, Mich.
du Pont de Nemours & Co., Inc., E. I. Kinetic Chemicals Div., Wilmington, Del. ("Freon" fluorinated hydro carbon refrigerants)
General Chemical Div., Allied Chemical Corp., New York, N. Y.
Pennsalt Chemicals Corp., Philadelphia, Pa.
Pennsylvania Engineering Co., Philadelphia, Pa.
Solvay Sales Div., Allied Chemical & Dye Corp., New York, N. Y.
Union Carbide Chemicals Co., Div. Union Carbide Corp., New York, N. Y.
Virginia Smelting Co., West Norfolk, Va.

REFRIGERANT TRANSFER SYSTEMS

See Pumps, Refrigerant Transfer

REFRIGERATING UNITS

See Unitary Air Conditioners, Summer, Condensing Unit for Split System

REFRIGERATION CHASSIS

See Unitary Air Conditioners, Summer, Refrigeration Chassis

REGISTER HEADS

See Duct Fittings

REGISTER SEALS

See Seals for Registers

REGISTERS, HEATING, VENTILATING AND AIR CONDITIONING

A & A Register Co., Cleveland, Ohio.
A-J Mfg. Co., Kansas City, Mo.
Air Control Products, Inc., Coopersville, Mich.
Air Devices, Inc., New York, N. Y.
Air Distribution Products Co., Los Angeles, Calif.
Air-Factors, Inc., Monrovia, Calif.
Airguide Plastics Corp., Miami, Fla. (Nylon)
American Warming & Ventilating Co., Toledo, Ohio.
Arizona Maintenance Co., Tucson, Ariz.
Auer Register Co., Cleveland, Ohio.
Austin Engineering & Mfg. Co., Inc., Ysleta, Tex.
Barber-Colman Co., Rockford, Ill.
Carnes Corp., Verona, Wis.
Char-Gale Mfg. Co., Anoka, Minn.
Cleveland Register & Grille Mfg. Co., Cleveland, O.
Connor Engineering Corp., Danbury, Conn.
Controlair Mfg. Co., Los Angeles, Calif.
Corbman Bros., Inc., Philadelphia, Pa.
Diamond Mfg. Co., Wyoming, Pa.
Dowagiac Steel Furnace Co., Dowagiac, Mich.
Dry Mfg. Co., Winters, Tex.
Empire Ventilation Equipment Co., Long Island City, N. Y.
General Air Products Corp., Stirling, N. J.
General Electric Co., Air Conditioning Dept., Tyler, Tex.
Gentle-Flo Co., Malvern, Pa.
Gerwin Industries, Thermo-Base Div., Michigan City, Ind.
Harrington & King Perforating Co., Inc., Chicago, Ill.
Harrison Sheet Steel Co., Chicago, Ill.
Hart & Cooley Mfg. Co., Holland, Mich.
Hendrick Mfg. Co., Carbondale, Pa.
Independent Register Co., Cleveland, Ohio.
Juniper Elbow Co., Inc., Middle Village, L. I., N. Y.
Krauser-Boyd, Inc., North Tonawanda, N. Y.
Krueger Air Conditioning Corp., Tucson, Ariz.
Lau Blower Co., Dayton, O.
Leigh Industries Inc., Asheville, N. C.
Lenly Mfg. Co., Inc., Los Angeles, Calif.
Lima Register Co., Lima, Ohio.
Lynn Corp., Inc., Marshall, Mich.
Made-Rite Co., Inc., Newport, Ky.
Maurlee Co., Inc., Woodbury Hts., N. J.
Midco Register Corp., St. Paul, Minn.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
National Grille & Register Co., Cleveland, O.
Ohio Register Co., Brecksville, O.
Patco Mfg. Co., Inc., Philadelphia, Pa.
Register & Grille Mfg. Co., Inc., Brooklyn, N. Y.
Rhoads Engineering Corp., Culver City, Calif.
Rock Island Register Co., Rock Island, Ill.
Shoemaker Mfg. Co., Seattle, Wash.
Smith Co., J. B., Philadelphia, Pa.
Standard Stamping & Perforating Co., Chicago, Ill.
Titus Mfg. Corp., Waterloo, Iowa.
Tuttle & Bailey Div. of Allied Thermal Corp., New Britain, Conn.
United States Register Co., Battle Creek, Mich.
Universal Diffuser Corp., Tuckahoe, N. Y.
Waterloo Register Co., Inc., Waterloo, Ia.
Wilde Register & Grille Co., Detroit, Mich.
Young Regulator Co., Cleveland, Ohio.

REGISTERS, SLOT TYPE

See Diffusers, Air, Continuous

REGULATORS, DUCT DAMPER SETS

Acme Mfg. Co., Philadelphia, Pa.
Adams Co., Dubuque, Iowa.
Air Control Products, Inc., Coopersville, Mich.
Barber-Colman Co., Rockford, Ill.
Corbman Bros., Inc., Philadelphia, Pa.
Duro-Dyne Corp., Farmingdale, N. Y.
Elgen Mfg. Corp., Long Island City, N. Y.
Fossum Damper Control Co., St. Paul, Minn.
General Controls Co., Glendale, Calif.
Gerrett Corp., M. A., Milwaukee, Wis.
Hart & Cooley Mfg. Co., Holland, Mich.
Malco Products, Minneapolis, Minn.
Malm Mfg. Co., St. Paul, Minn.
Martens & Stormoen, West Quincy, Mass.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Severson Mfg. & Supply Co., Milwaukee, Wis.
United States Register Co., Battle Creek, Mich.
Ventfabrics, Inc., Chicago, Ill.
Young Regulator Co., Cleveland, Ohio.

REGULATORS, FURNACE DRAFT, MECHANICAL

Atlas Valve Co., Newark, N. J.
Defender Instrument & Regulator Co., Boody, Ill.
Hart & Cooley Mfg. Co., Holland, Mich.
Hays Corp., Michigan City, Ind.
Heatcrafters Manufacturers, Baileys Harbor, Wis.
Kol-Master Corp., Oregon, Ill.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
National Fuel Conservation Co., Inc., White Plains, N. Y.
Quickdraft Co., Canton, O.

RELAYS, ELECTRICAL

See Controls, Relay

REMOTE AIR CONDITIONING UNITS

See Unitary Air Conditioners, Summer, Coil; Unitary Air Conditioners, Summer, Condensing Unit for Split System

REMOVER, SOOT

Ampion Corp., Long Island City, N. Y.
Coleman Co., Everett, Mass.
Coughlan Co., G. N., West Orange, N. J.
General Filters, Inc., Novi, Mich.
Hasko Utilities Co., New York, N. Y.
Hercules Chemical Co., Inc., New York, N. Y.
Lester Laboratories, Inc., Atlanta, Ga.
Magnus Chemical Co., Garwood, N. J.
Marine Electrolysis Eliminator Co., Seattle, Wash.
Metropolitan Refining Co., Inc., Long Island City, N. Y.
Miller Products Co., Lansing, Mich.
Nalco Chemical Co., Chicago, Ill.
Norman Chemical Co., St. Paul, Minn.
North American Mogul Products Co., Cleveland, Ohio.
Park-Hill Chemical Corp., Mt. Vernon, N. Y.
Red Wing Oil Burner Co., Inc., Medford, Mass.
S.O.S. Products Co., Inc., Brooklyn, N. Y.
Schaefer Chemical Products Co., Saginaw, Mich.
Smith Chemical Co., E. W., La Puente, Calif.
Stewart-Hall Chemical Corp., Mt. Vernon, N. Y. (Aerosol type)
Tamm Industries Co., Chicago, Ill.

REPLACEMENT PARTS, REBUILT FOR HEATING AND COOLING SYSTEMS

See Parts, Rebuilt, for Heating and Cooling Systems

RETURN AIR FACES AND INTAKES

See Faces, Return Air

RIDGE ROLL, SHEET METAL

Alabama Metal Lath Co., Birmingham, Ala. (Steel)
Aluminum Co. of America, Pittsburgh, Pa. (Aluminum)
American Steel & Wire Div., U. S. Steel Corp., Cleveland, Ohio.
Appleton Supply Co., Inc., Appleton, Wis. (Galvanized steel, aluminum)
Berger Bros. Co., Philadelphia, Pa.
Berger Div., Republic Steel Corp., Canton, O. (Galvanized,terne, stainless steel, copper)
Bethlehem Steel Co., Bethlehem, Pa. (Steel)
Bowman Steel Corp., Pittsburgh, Pa.
Chase Brass & Copper Co., Inc., Waterbury, Conn. (Copper)
Hussey & Co., C. G., Pittsburgh, Pa. (Copper)
Inland Steel Products Co., Milwaukee, Wis. (Galvanized, copper, aluminum)
Kaiser Aluminum & Chemical Sales, Inc., Oakland, Calif. (Aluminum)
La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis. (Galvanized)
Matthiessen & Hegeler Zinc Co., La Salle, Ill. (Zinc)
National Elbow and Fitting Corp., Long Island City, N. Y. (Galvanized)
New Delphos Mfg. Co., Delphos, O. (Galvanized)
Newport Rolling Mill Co., Newport, Ky.
Nichols Wire & Aluminum Co., Davenport, Iowa. (Aluminum)
Northwest Metal Products, Inc., Seattle, Wash. (Galvanized)
Penn Supply & Metal Corp., Philadelphia, Pa. (Galvanized, aluminum)
Plasteel Products Co., Washington, Pa.
Quaker State Metals Co., Lancaster, Pa. (Aluminum)
Reeves Steel & Mfg. Co., Div. of Empire-Reeves Steel Corp., Dover, Ohio. (Galvanized)
Republic Steel Corp., Cleveland, O.
Reynolds Metals Co., Richmond, Va. (Aluminum)
Sheet Metal Mfg. Co., Inc., Brooklyn, N. Y. (Copper, aluminum, galvanized, zinc)
Sioux Steel Co., Sioux City, S. D. (Galv.)
Steelcraft Mfg. Co., Rossmyrne, O. (Galvanized)
Tennessee Coal & Iron Div., U. S. Steel Corp., Fairfield, Ala.
Tiffin Art Metal Co., Tiffin, Ohio. (Galv. copper, stainless steel, aluminum)
Wallace Co., William, Metalbestos Div., Belmont, Calif. (Galvanized, aluminum)

RIDGE VENTILATORS

See Ventilators, Roof

RIVETS, ALLOY

Bethlehem Steel Co., Bethlehem, Pa.
Harper Co., H. M., Morton Grove, Ill.
Hassall, Inc., John, Westbury, L. I., N. Y.
Huck Mfg. Co., Detroit, Mich. (Blind)
Pop Rivet Div., United Shoe Machinery Corp., Shelton, Conn.
Republic Steel Corp., Cleveland, Ohio.
Tubular Rivet & Stud Co., Quincy, Mass.

RIVETS, ALUMINUM

Aluminum Co., of America, Pittsburgh, Pa.
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Chicago Rivet & Machine Co., Bellwood, Ill.
Clark Bros. Bolt Co., Milldale, Conn.
Harper Co., H. M., Morton Grove, Ill.
Hassall, Inc., John, Westbury, L. I., N. Y.
Huck Mfg. Co., Detroit, Mich. (Blind)
Pop Rivet Div., United Shoe Machinery Corp., Shelton, Conn.
Reynolds Metals Co., Louisville, Ky.
Townsend Co., Engineered Fasteners Div., Ellwood City, Pa.
Tubular Rivet & Stud Co., Quincy, Mass.

RIVETS, BLIND FASTENING

Bowman Products Co., Cleveland, O.
du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
Huck Mfg. Co., Detroit, Mich.
Insul-Coustic Corp., Maspeth, N. Y.
Pop Rivet Div., United Shoe Machinery Corp., Shelton, Conn.

Richline Co., Inc., Minneapolis, Minn.
Southco Div., South Chester Corp., Lester, Pa.

RIVETS, BRASS OR COPPER

Chase Brass & Copper Co., Inc., Waterbury, Conn.
Chicago Rivet & Machine Co., Bellwood, Ill.
Harper Co., H. M., Morton Grove, Ill.
Hassall, Inc., John, Westbury, L. I., N. Y.
Hussey & Co., C. G., Pittsburgh, Pa. (Copper)
Pop Rivet Div., United Shoe Machinery Corp., Shelton, Conn.
Taunton & Co., Inc., John H., New York, N. Y.
Townsend Co., Engineered Fasteners Div., Ellwood City, Pa.
Tubular Rivet & Stud Co., Quincy, Mass.

RIVETS, IRON

Chicago Rivet & Machine Co., Bellwood, Ill.
Hassall, Inc., John, Westbury, L. I., N. Y.
Townsend Co., Engineered Fasteners Div., Ellwood City, Pa.
Tubular Rivet & Stud Co., Quincy, Mass.

RIVETS, STEEL

Allmetal Screw Products Co., Inc., Garden City, N. Y.
Anti-Corrosive Metal Products Co., Inc., Castleton-on-Hudson, N. Y. (Stainless)
Bethlehem Steel Co., Bethlehem, Pa.
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Cherry Rivet Co., Los Angeles, Calif. (Blind)
Chicago Rivet & Machine Co., Bellwood, Ill.
Clark Bros. Bolt Co., Milldale, Conn.
Hassall, Inc., John, Westbury, L. I., N. Y.
Huck Mfg. Co., Detroit, Mich. (Blind)
Pop Rivet Div., United Shoe Machinery Corp., Shelton, Conn.
Republic Steel Corp., Cleveland, Ohio.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
Townsend Co., Engineered Fasteners Div., Ellwood City, Pa.
Tubular Rivet & Stud Co., Quincy, Mass.

ROD CUTTERS

See Machines, Sheet Metal Working, Rod Cutting

ROD, WELDING

Air Reduction Sales Co., New York, N. Y.
All-State Welding Alloys Co., Inc., White Plains, N. Y.
Aluminum Co. of America, Pittsburgh, Pa.
American Steel & Wire Div., U. S. Steel Corp., Cleveland, Ohio.
Anaconda American Brass Co., Waterbury, Conn.
Arcos Corp., Philadelphia, Pa. (Stainless steel)
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Eutectic Welding Alloys Corp., Flushing, N. Y.
Hobart Bros. Co., Troy, Ohio.
International Nickel Co., Inc., New York, N. Y. (Nickel & nickel alloys)
Laramy Products Co., Cohasset, Mass. (Plastic)
Lincoln Electric Co., Cleveland, O.
Linde Co., Div. Union Carbide Corp., New York, N. Y.
Marquette Mfg. Co., Div. of Marquette Corp., Minneapolis, Minn.
McKay Co., Pittsburgh, Pa.
Metal & Thermit Corp., Rahway, N. J.
Mueller Brass Co., Port Huron, Mich.
National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
Page Steel & Wire Div., American Chain & Cable Co., Inc., Monessen, Pa.
Revere Copper & Brass Inc., New York, N. Y.
Rexarc, Inc., Sight Feed Generator Div., West Alexandria, O.
Smith Corp., A. O., Permaglas Div., Kankakee, Ill.
Tennessee Fabricating Co., Memphis, Tenn.
Victor Equipment Co., San Francisco, Calif.
Wall Colmonoy Corp., Detroit, Mich.
Westinghouse Electric Corp., Pittsburgh, Pa.
Youngstown Sheet & Tube Co., Youngstown, Ohio.

ROLL FORMERS

See Machines, Sheet Metal Working, Slip Roll Forming

ROOF CEMENT

See Cement, Roof

ROOF DECKING

See Decking, Roof, Metal

ROOFING, BUILT-UP

See Felt, Roofing

ROOFING MACHINES

See Machines, Sheet Metal Working, Pan Forming

ROOFING, SHEET METAL, ALUMINUM

Aluminum Co., of America, Pittsburgh, Pa.
Fairmont Aluminum Co., Fairmont, W. Va.
Kaiser Aluminum & Chemical Sales, Inc., Oakland, Calif.
Lustrik, Inc., Philadelphia, Pa.
Nichols Wire & Aluminum Co., Davenport, Iowa.
Revere Copper and Brass, Inc., New York, N. Y.
Reynolds Metals Co., Richmond, Va.
Tiffin Art Metal Co., Tiffin, Ohio.

ROOFING, SHEET METAL, COPPER

Anaconda American Brass Co., Waterbury, Conn.
Braden Mfg. Co., Inc., Terre Haute, Ind.
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Hussey & Co., C. G., Pittsburgh, Pa.
Perkinson, William J., Chicago, Ill.
Revere Copper & Brass Inc., New York, N. Y.

ROOFING, SHEET METAL, LEAD

Alpha Metals, Inc., Jersey City, N. J.
American Smelting and Refining Co., Federated Metals Div., New York, N. Y.
Chase Brass & Copper Co., Inc., Waterbury, Conn. (Coated copper)
Division Lead Co., Summit, Ill.
Empire Metal Co., Syracuse, N. Y.
Flemm Lead Co., Inc., Long Island City, N. Y.
Kirk & Son, Morris P., Los Angeles, Calif. (Copper, galvanized, iron)
National Lead Co., New York, N. Y.
Revere Copper & Brass Inc., Foil Div., Brooklyn, N. Y.

ROOFING, SHEET METAL, MONEL

International Nickel Co., Inc., New York, N. Y.

ROOFING, SHEET METAL, STEEL, GALVANIZED

Airtherm Mfg. Co., St. Louis, Mo.
Ajax Furnace Fitting Co., Div. Cincinnati Sheet Metal & Roofing Co., Cincinnati, Ohio.
American Steel & Wire Div., U. S. Steel Corp., Cleveland, Ohio
Armco Steel Corp., Middletown, Ohio.
Berger Div., Republic Steel Corp., Canton, O.
Bethlehem Steel Co., Bethlehem, Pa.
Braden Mfg. Co., Inc., Terre Haute, Ind.
Goldsmith Metal Lath Co., Cincinnati, Ohio.
Gramco Steel Products Co., St. Louis, Mo.
Granite City Steel Co., Granite City, Ill.
Inland Steel Co., Chicago, Ill.
Inland Steel Products Co., Milwaukee, Wis.
International Steel Co., Evansville, Ind.
La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis.
Lyon, Conklin & Co., Inc., Baltimore, Md.
Perkinson, William J., Chicago, Ill.
Plasteel Products Corp., Washington, Pa.
Reeves Steel & Mfg. Co., Div. of Empire-Reeves Steel Corp., Dover, Ohio.
Republic Steel Corp., Cleveland, Ohio.
Sioux Steel Co., Sioux Falls, S. D.

Tennessee Coal & Iron Div., U. S. Steel Corp., Fairfield, Ala.
Tiffin Art Metal Co., Tiffin, Ohio.
Truscon Div., Republic Steel Corp., Youngstown, O.
United States Steel Corp., Pittsburgh, Pa.
Weirton Steel Co., Weirton, W. Va.

ROOFING, SHEET METAL, STEEL, PROTECTIVE COATED

Airtherm Mfg. Co., St. Louis, Mo.
Bowman Steel Corp., Pittsburgh, Pa.
Plasteel Products Corp., Washington, Pa.
Robertson Co., H. H., Pittsburgh, Pa.

ROOFING, SHEET METAL, STEEL, TERNE PLATE

Berger Div., Republic Steel Corp., Canton, O.
Fingles Co., Baltimore, Md.
Follansbee Steel Corp., Follansbee, W. Va.
Lyon, Conklin & Co., Inc., Baltimore, Md.
United States Steel Corp., Pittsburgh, Pa.

ROOFING, SHEET METAL, STEEL, TIN PLATE

Berger Div., Republic Steel Corp., Canton, O.
Bethlehem Steel Co., Bethlehem, Pa.
Lyon, Conklin & Co., Inc., Baltimore, Md.
Perkinson, William J., Chicago, Ill.
United States Steel Corp., Pittsburgh, Pa.

ROOFING, SHEET METAL, ZINC

Barnes Metal Products Co., Chicago, Ill.
Empire Metal Co., Syracuse, N. Y.
Illinois Zinc Co., Div. of Hydrometals Inc., Chicago, Ill.
Matthiessen & Hegeler Zinc Co., La Salle, Ill.
Perkinson, William J., Chicago, Ill.

ROOF TRIM, PREFABRICATED, EAVES, RAKES, GRAVEL STOPS, ETC.

Alabama Metal Lath Co., Birmingham, Ala.
Appleton Supply Co., Inc., Appleton, Wis.
Cheney Flashing Co., Trenton, N. J. (Gravel stops)
Fiberglass Reinforced Products Co., Valley City, O. (Plastic facia, gravel stops, etc.)
Inland Steel Products Co., Milwaukee, Wis.
La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis.
New Delphos Mfg. Co., Delphos, O.
Northwest Metal Products, Inc., Seattle, Wash.
Obdyke, Inc., B. P., Philadelphia, Pa. (Eaves, rakes, gravel stops)
Penn Supply & Metal Corp., Philadelphia, Pa. (Galvanized, copper and aluminum)
Reeves Steel & Mfg. Co., Div. of Empire-Reeves Steel Corp., Dover, O.
Republic Steel Corp., Cleveland, O.
Reynolds Metals Co., Richmond, Va. (Under eave strip vent)
Royal-Apex Mfg. Co., Inc., Brooklyn, N. Y.
Sheet Metal Mfg. Co., Inc., Brooklyn, N. Y.
Thor Metal Products Co., Inc., Syracuse, N. Y.

ROOF VENTILATORS

See Ventilators, Roof

ROOF VENTILATOR CURBS

See Curbs, Roof Ventilator

ROOM COOLING UNITS

See Unitary Air Conditioners, Summer, Self-Contained, Room Type, Floor Cabinet

ROOM THERMOSTATS

See Controls, Thermostats

ROUND DUCT, PREFABRICATED

See Pipe and Fittings, Furnace

ROUND DUCT SYSTEMS, PACKAGED

See Systems, Heating, Small Pipe

RUST PROTECTION FOR METALS

See Chemicals, Rust Preventive

SADDLE ASSEMBLY, HUMIDIFIER WATER LINE

See Valves, Shut-Off, Humidifier Water Line

SANDERS

See Buffers, Grinders, Polishers and Sanders

SAVERS, HEAT

See Recoverers, Heat

SAW BLADES, ELECTRIC

See Blades, Electric, Saw, Portable

SAWS AND ATTACHMENTS, ELECTRIC

Aladdin Mfg. Co., Odessa, Mo.
Albertson & Co., Inc., Sioux City, Ia.
Atkins Saw Div., Borg-Warner Corp., Indianapolis, Ind.
Black & Decker Mfg. Co., Towson, Md.
Chicago Pneumatic Tool Co., New York, N. Y.
Cummins Portable Tools Div. of John Oster Mfg. Co., Milwaukee, Wis.
Kett Tool Co., Cincinnati, O.
Krieg, Inc., Victor J., New York, N. Y.
Mid-States Welder Mfg. Co., Chicago, Ill.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Corp., Milwaukee, Wis.
Modern Mfg. Co., Inc., Willow Grove, Pa.
Portable Electric Tools, Inc., Geneva, Ill.
Porter-Cable Machine Co., Syracuse, N. Y.
Price & Rutzebeck, Hayward, Calif.
Producers & Distributors, Inc., Allentown, Pa.
Saw-Mor Tool & Blade Co., Chicago, Ill.
Skil Corp., Chicago, Ill.
Stanley Electric Tools Div. of The Stanley Works, New Britain, Conn.
Thor Power Tool Co., Aurora, Ill.
Tri-Saw Corp., St. Louis, Mo.
Wen Products Inc., Chicago, Ill.
Williams Tool & Stamping Co., Inc., Kansas City, Mo.
Wodack Electric Tool Corp., Chicago, Ill.
Wyzenbeek & Staff, Inc., Chicago, Ill.

SAWS, BAND, SHEET METAL CUTTING

See Machines, Sheet Metal Working, Saws, Band

SAWS, CIRCULAR

See Machines, Sheet Metal Working, Saws, Circular

SCALE REMOVING CHEMICALS

See Compounds, Cleaning, Condenser and Coil

SCREENS, SUN REFLECTING

Kaiser Aluminum & Chemical Sales, Inc., Oakland, Calif.
Reflectal Corp., Subsidiary Borg-Warner Corp., Chicago, Ill.

SCREWS, SHEET METAL

Air Control Products, Inc., Coopersville, Mich.
Allmetal Screw Products Co., Inc., Garden City, N. Y.
American Screw Co., Willimantic, Conn.
Anti-Corrosive Metal Products Co., Inc., Castleton-on-Hudson, N. Y. (Stainless steel)
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Construction Fasteners Inc., Reading, Pa.
Continental Screw Co., New Bedford, Mass.
Duro-Dyne Corp., Farmingdale, N. Y.
Elco Tool & Screw Corp., Rockford, Ill.
Harper Co., H. M., Morton Grove, Ill.
Hart & Cooley Mfg. Co., Holland, Mich.
Holub Industries, Inc., Sycamore, Ill.
Independent Nail & Packing Co., Bridgewater, Mass.
Leigh Industries, Inc., Asheville, N. C.
National Lead Co., New York, N. Y.
National Lock Co., Inc., Rockford, Ill.
Paine Co., Addison, Ill.
Parker-Kalon Div. of General American Transportation Corp., Clifton, N. J.
Pheoll Mfg. Co., Inc., Chicago, Ill.
Profit Products Corp., Glen Ellyn, Ill.
Rockford Screw Products Co., Rockford, Ill.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
Shakeproof Div., Illinois Tool Works, Elgin, Ill.
Southern Screw Co., Statesville, N. C.
Star Stainless Screw Co., Paterson, N. J.
United States Register Co., Battle Creek, Mich.

SCREWS, SHEET METAL, SELF-DRILLING

American Screw Co., Willimantic, Conn.
Duro-Dyne Corp., Farmingdale, N. Y.
Leigh Industries, Inc., Asheville, N. C.
Parker-Kalon Div. of General American Transportation Corp., Clifton, N. J.

SCREWS, SHEET METAL, WITH WELDING HEAD

American Screw Co., Willimantic, Conn.
Ohio Nut & Bolt Co., Berea, O.
Parker-Kalon Div. of General American Transportation Corp., Clifton, N. J.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.

SCRUBBERS, AIR, FOR FUME REMOVAL

Ducon Co., Inc., The, Mineola, N. Y.
Dust Suppression & Engineering Co., Lake Orion, Mich.
Wood Co., John, Heater & Tank Div., Conshohocken, Pa.

SEALANTS, MOLDED (FOR CURTAIN WALL PANELS)

Inland Mfg. Div., General Motors Corp., Dayton, O.
Presstite Div., American-Marietta Co., St. Louis, Mo.
Products Research Co., Burbank, Calif.

SEALERS, DUCT JOINT

Cain Mfg. Inc., Birmingham, Ala.
Duro-Dyne Corp., Farmingdale, N. Y.
Fuller Co., H. B., St. Paul, Minn.
Insul-Coustic Corp., Maspeth, N. Y.
Minnesota Mining & Mfg. Co. Adhesives, Coatings & Sealers Div., St. Paul, Minn.

SEALS FOR REGISTERS

Goodrich Co., B. F., Sponge Products, Shelton, Conn.

SEAMER MACHINES

See Machines, Sheet Metal Working, Seaming; Machines, Sheet Metal Working, Grooving

SEAMERS, ELECTRIC, PITTSBURGH LOCK

Millers Falls Co., Greenfield, Mass.
Niagara Machine & Tool Works, Buffalo, N. Y.

SETS, DAMPER LINKAGE

Duro-Dyne Corp., Farmingdale, N. Y.
Elgen Mfg. Corp., Long Island City, N. Y.

SETTING DOWN MACHINES

See Machines, Setting Down

SHEARS AND PUNCHES COMBINED

See Punches and Shears Combined

SHEARS, BENCH, HAND

Bartlett Mfg. Co., Detroit, Mich.
Bremil Mfg. Co., Erie, Pa.
Heinrich Tools, Inc., Racine, Wis.
Hendley & Whittemore Co., Beloit, Wis.
Niagara Machine & Tool Works, Buffalo, N. Y.
Nielsen, Inc., E. V., Stamford, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
Porter, Inc., H. K., Somerville, Mass.
Whitney Metal Tool Co., Rockford, Ill.
Wiss & Sons Co., J., Newark, N. J.

SHEARS, CIRCLE

See Machines, Sheet Metal Working, Shears, Circle

SHEARS, ELECTRIC, PORTABLE

Beverly Shear Mfg. Co., The, Chicago, Ill.
Black & Decker Mfg. Co., Towson, Md.
Fenway Machine Co., Inc., Philadelphia, Pa.
Jemco Tool Corp., Seneca Falls, N. Y.
Krieg, Inc., Victor J., New York, N. Y.
Lind Co., C. W., Minneapolis, Minn.
Malden Research and Development Co., Inc., Malden, Boston, Mass.
Merchandising and Mfg. Associates, Inc., Lancaster, Pa.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Corp., Milwaukee, Wis.
Modern Mfg. Co. Inc., Willow Grove, Pa.
O'Neil-Irwin Mfg. Co., Lake City, Minn.
Skil Corp., Chicago, Ill.
Stanley Electric Tools Div. of The Stanley Works, New Britain, Conn.
Thor Power Tool Co., Aurora, Ill.
Wilder Mfg. Co., Inc., Salinas, Calif.
Wood Enterprises, Inc., Dayton, O.

SHEARS, ROTARY

See Machines, Sheet Metal Working, Shears, Rotary, Slicing

SHEARS, SQUARING

See Machines, Sheet Metal Working, Shears, Squaring

SHEARS, THROATLESS, LEVER

Beverly Shear Mfg. Co., The, Chicago, Ill.
Edwards Mfg. Co., Albert Lea, Minn.
Niagara Machine & Tool Works, Buffalo, N. Y.
O'Neil-Irwin Mfg. Co., Lake City, Minn.
Peck, Stow & Wilcox Co., Southington, Conn.
Progressive Tool & Mfg. Co., East Haven, Conn.
Viking Shear Co., Erie, Pa.
Vyke Mfg. Co., Denver, Colo.
Whitney Mfg. Co., W. A., Rockford, Ill.
Whitney Metal Tool Co., Rockford, Ill.

SHEET METAL PANELS FOR CURTAIN WALL

See Panels, Curtain Wall

SHEET METAL SCREWS

See Screws, Sheet Metal

SHEETS, EXPANDED METAL

National Gypsum Co., Buffalo, N. Y.
Penn Metal Co., Inc., Boston, Mass.
United States Gypsum Co., Chicago, Ill.

SHEETS, METAL, ALUMINUM

Aluminum Co. of America, Pittsburgh, Pa.
American Silver Co., Inc., Flushing, N. Y.
Anaconda Aluminum Co., Louisville, Ky.
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Colonial Alloys Co., Philadelphia, Pa. (Anodized)
Fairmont Aluminum Co., Fairmont, W. Va.
Kaiser Aluminum & Chemical Sales, Inc., Oakland, Calif.
Lustrik, Inc., Philadelphia, Pa.
Mueller Brass Co., Port Huron, Mich.
Nichols Wire & Aluminum Co., Davenport, Iowa.
Olin Mathieson Chemical Corp., New York, N. Y.
Quaker State Metals Co., Lancaster, Pa.
Revere Copper & Brass, Inc., New York, N. Y.
Reynolds Metals Co., Richmond, Va.
Scovill Mfg. Co., Waterbury, Conn. (Strips)
U.S. Aluminum Siding Corp., Franklin Park, Ill. (Colored siding)

SHEETS, METAL, CLAD

Allegheny Ludlum Steel Corp., Pittsburgh, Pa. (Stainless steel)
Aluminum Co. of America, Pittsburgh, Pa. (Aluminum)
American Silver Co., Flushing, N. Y.
Division Lead Co., Summit, Ill. (Lead)
Handy & Harman, New York, N. Y. (Silver clad)
Ingersoll Steel Div., Borg-Warner Corp., Chicago, Ill. (Stainless)
Kaiser Aluminum & Chemical Sales, Inc., Oakland, Calif. (Aluminum)
Lukens Steel Co., Coatesville, Pa. (Nickel, Monel, Inconel & stainless steel)
Olin Mathieson Chemical Corp., New York, N. Y. (Aluminum)
Republic Steel Corp., Cleveland, O. (Steel clad and stainless)
Texas Instruments Inc., Metals & Controls Div., Attleboro, Mass.

SHEETS, METAL, COPPER

American Silver Co., Inc., Flushing, N. Y.
Anaconda American Brass Co., Waterbury, Conn.
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Cheney Flashing Co., Trenton, N. J.
Hussey & Co., C. G., Pittsburgh, Pa.
Inland Steel Products Co., Milwaukee, Wis.
Metals Div., Olin Mathieson Chemical Corp., East Alton, Ill.
Olin Mathieson Chemical Corp., New York, N. Y.
Revere Copper & Brass Inc., New York, N. Y.
Weirton Steel Co., Weirton, W. Va.

SHEETS, METAL, COPPER, LEAD COATED

Anaconda American Brass Co., Waterbury, Conn.
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Hussey & Co., C. G., Pittsburgh, Pa.
Revere Copper & Brass Inc., New York, N. Y.

SHEETS, METAL, EMBOSSED

Ardmore Products, Inc., Roselle, N. J.
Chase Brass & Copper Co., Inc., Waterbury, Conn. (Copper, brass, bronze)
Croname, Inc., Chicago, Ill.
Fairmont Aluminum Co., Fairmont, W. Va.
Kaiser Aluminum & Chemical Sales, Inc., Oakland, Calif.
Lustrik, Inc., Philadelphia, Pa.
Rigidized Metals Corp., Buffalo, N. Y.

SHEETS, METAL, LEAD

Alpha Metals, Inc., Jersey City, N. J.
American Smelting and Refining Co., Federated Metals Div.,
New York, N. Y.
Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y.
Division Lead Co., Summit, Ill.
Empire Metal Co., Syracuse, N. Y.
Flemm Lead Co., Inc., Long Island City, N. Y.
Glaser Lead Co., Inc., Brooklyn, N. Y.
Kirk & Son, Morris P., Los Angeles, Calif.
National Lead Co., New York, N. Y.
Revere Copper & Brass, Inc., Foil Div., Brooklyn, N. Y.

SHEETS, METAL, PROTECTIVE COATED

Arvin Industries, Inc., Columbus, Ind. (Laminated plastic,
ornamental)
Bowman Steel Corp., Pittsburgh, Pa. (Asbestos-asphalt)
Erie Enameling Co., Erie, Pa. (Porcelain)
Plasteel Products Corp., Washington, Pa.
Robertson Co., H. H., Pittsburgh, Pa.

SHEETS, METAL, SPECIAL METAL

Alpha Metals, Inc., Jersey City, N. J. (Tin, antimony)
American Silver Co., Inc., Flushing, N. Y. (Silver)
Anaconda American Brass Co., Waterbury, Conn. (Copper-
silicon alloys)
Cheney Flashing Co., Trenton, N. J. (Copper-zinc alloy)
Colonial Alloys Co., Philadelphia, Pa. (Color-treated)
Division Lead Co., Summit, Ill. (Non-ferrous, cadmium)
Handy & Harman, New York, N. Y. (Silver, gold-silver alloys)
International Nickel Co., Inc., New York, N. Y. (Nickel & nickel
alloys)
Lukens Steel Co., Coatesville, Pa. (Monel & Inconel)
Metals Div., Olin Mathieson Chemical Corp., East Alton, Ill.
(Brass and bronze)
Revere Copper & Brass Inc., New York, N. Y. (Copper alloys)
Youngstown Sheet & Tube Co., Youngstown, O.

SHEETS, METAL, STEEL, ALUMINUM COATED

Armco Steel Corp., Middletown, Ohio.
Republic Steel Corp., Cleveland, O.

SHEETS, METAL, STEEL, BLACK

Alan Wood Steel Co., Conshohocken, Pa.
Bethlehem Steel Co., Bethlehem, Pa.
Inland Steel Co., Chicago, Ill.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Mallory-Sharon Metals Corp., Niles, O.
Pittsburgh Steel Co., Pittsburgh, Pa.
Republic Steel Corp., Cleveland, Ohio.
Tennessee Coal & Iron Div., U. S. Steel Corp., Fairfield, Ala.
United States Steel Corp., Pittsburgh, Pa.
Weirton Steel Co., Weirton, W. Va.
Youngstown Sheet & Tube Co., Youngstown, Ohio.

SHEETS, METAL, STEEL, COPPER BEARING, GALVANIZED

Armco Steel Corp., Middletown, Ohio.
Bethlehem Steel Co., Bethlehem, Pa.
Inland Steel Co., Chicago, Ill.
Reeves Steel & Mfg. Co., Div. of Empire-Reeves Steel Corp.,
Dover, Ohio.
Republic Steel Corp., Cleveland, Ohio.
Sharon Steel Co., Sharon, Pa.
Tennessee Coal & Iron Div., U. S. Steel Corp., Fairfield, Ala.
United States Steel Corp., Pittsburgh, Pa.
Weirton Steel Co., Weirton, W. Va.
Wheeling Steel Corp., Wheeling, W. Va.
Youngstown Sheet & Tube Co., Youngstown, Ohio.

SHEETS, METAL, STEEL, CORRUGATED

Armco Steel Corp., Middletown, Ohio.
Berger Div., Republic Steel Corp., Canton, O. (Galvanized)

Bethlehem Steel Co., Bethlehem, Pa. (Galvanized)
Granite City Steel Co., Granite City, Ill. (Galvanized)
Inland Steel Co., Chicago, Ill. (Galvanized)
Inland Steel Products Co., Milwaukee, Wis. (Galvanized)
Jones & Laughlin Steel Corp., Pittsburgh, Pa. (Galvanized)
Reeves Steel & Mfg. Co., Div. of Empire-Reeves Steel Corp.,
Dover, Ohio. (Galv. & black)
Republic Steel Corp., Cleveland, Ohio. (Galv.)
Sharon Steel Corp., Sharon, Pa. (Black and galvanized)
Tennessee Coal & Iron Div., U. S. Steel Corp., Fairfield, Ala.
United States Steel Corp., Pittsburgh, Pa. (Galv. & black)
Weirton Steel Co., Weirton, W. Va. (Galv.)
Wheeling Corrugating Co., Wheeling, W. Va. (Galvanized)

SHEETS, METAL, STEEL, GALVANIZED

Armco Steel Corp., Middletown, Ohio.
Berger Div., Republic Steel Corp., Canton, O.
Bethlehem Steel Co., Bethlehem, Pa.
Granite City Steel Co., Granite City, Ill.
Inland Steel Co., Chicago, Ill.
Inland Steel Products Co., Milwaukee, Wis.
International Steel Co., Evansville, Ind.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Reeves Steel & Mfg. Co., Div. of Empire-Reeves Steel Corp.,
Dover, Ohio.
Republic Steel Corp., Cleveland, Ohio.
Tennessee Coal & Iron Div., U. S. Steel Corp., Fairfield, Ala.
United States Steel Corp., Pittsburgh, Pa.
Weirton Steel Co., Weirton, W. Va.
Wheeling Steel Corp., Wheeling, W. Va.

SHEETS, METAL, STEEL, GALVANNEALED

Berger Div., Republic Steel Corp., Canton, O.
Bethlehem Steel Co., Bethlehem, Pa.
Republic Steel Corp., Cleveland, Ohio.
Sharon Steel Corp., Sharon, Pa.
United States Steel Corp., Pittsburgh, Pa.

SHEETS, METAL, STEEL, STAINLESS

Allegheny Ludlum Steel Corp., Pittsburgh, Pa.
American Silver Co., Inc., Flushing, N.Y.
Armco Steel Corp., Middletown, Ohio.
Berger Div., Republic Steel Corp., Canton, O.
Crucible Steel Co. of America, Pittsburgh, Pa.
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Eastern Stainless Steel Corp., Baltimore, Md.
Ingersoll Steel Div., Borg-Warner Corp., Chicago Ill.
Jessop Steel Co., Washington, Pa.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Jones & Laughlin Steel Corp., Stainless and Strip Div., Detroit,
Mich.
McLouth Steel Corp., Detroit, Mich.
Republic Steel Corp., Cleveland, Ohio.
Sharon Steel Corp., Sharon, Pa.
Tennessee Coal & Iron Div., U. S. Steel Corp., Fairfield, Ala.
United States Steel Corp., Pittsburgh, Pa.
Universal-Cyclops Steel Corp., Bridgeville, Pa.
Washington Steel Corp., Washington, Pa.

SHEETS, METAL, STEEL, TERNE PLATE

Armco Steel Corp., Middletown, Ohio.
Berger Div., Republic Steel Corp., Canton, O.
Follansbee Steel Corp., Follansbee, W. Va.
Mallory-Sharon Metals Corp., Niles, O.
Roofing & Supply Co., Chattanooga, Tenn.
Sharon Steel Corp., Sharon, Pa.
Tennessee Coal & Iron Div., U. S. Steel Corp., Fairfield, Ala.
United States Steel Corp., Pittsburgh, Pa.
Weirton Steel Co., Weirton, W. Va.

SHEETS, METAL, STEEL, TIN PLATE

Berger Div., Republic Steel Corp., Canton, O.
Bethlehem Steel Co., Bethlehem, Pa.
Granite City Steel Co., Granite City, Ill.
Inland Steel Co., Chicago, Ill.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Republic Steel Corp., Cleveland, Ohio.
Sharon Steel Corp., Sharon, Pa.

United States Steel Corp., Pittsburgh, Pa.
Weirton Steel Co., Weirton, W. Va.
Youngstown Sheet & Tube Co., Youngstown, Ohio.

SHEETS, METAL, TITANIUM

Crucible Steel Co. of America, Pittsburgh, Pa.
Mallory-Sharon Metals Corp., Niles, O.
Republic Steel Corp., Cleveland, O.
Republic Steel Corp., Alloy Steel Div., Massillon, O.
Titanium Metals Corp. of America, New York, N. Y.

SHEETS, METAL, ZINC

Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y.
Empire Metal Co., Syracuse, N. Y.
Illinois Zinc Co. Div. of Hydrometals Inc., Chicago, Ill.
Kirk & Son, Inc., Morris P., Los Angeles, Calif.
Matthiessen & Hegeler Zinc Co., La Salle, Ill.

SHEETS, NON-METALLIC, OTHER THAN PLASTIC

American Hard Rubber Co., Butler, N. J. (Hard rubber)
Carey Mfg. Co., Philip, Cincinnati, Ohio. (Asbestos cement, asphalt, plywood)
Johns-Manville, New York, N. Y. (Asbestos cement)
Kearsey & Mattison Co., Ambler, Pa. (Asbestos)
Nicolet Industries, Inc., Florham Park, N. J. (Asbestos)
Raybestos-Manhattan, Inc., Passaic, N. J. (Rubber)
Ruberoid Co., New York, N. Y. (Asbestos cement; flat & corrugated)

SHEETS, PLASTIC, FOR DUCTS AND HOODS

American Agile Corp., Bedford, O. (Polyethylene)
Argo Plastic Products, Cleveland, O.
Atlas Mineral Products Co., Mertztown, Pa. (Rigid polyvinyl chloride)
Barrett Div., Allied Chemical Corp., New York, N. Y.
Byers Co., A. M., Pittsburgh, Pa. (PVC)
Campco Div., Chicago Molded Products Corp., Chicago, Ill.
Colonial Plastics Mfg. Co., Subsidiary Van Dorn Iron Works Co., Cleveland, O. (Polyvinyl chloride)
Firestone Plastics Co., Pottstown, Pa.
General Tire & Rubber Co., Akron, O.
General Tire & Rubber Co., Marion, Ind.
General Tire and Rubber Co., Bolta Products Div., Lawrence, Mass.
Goodrich Industrial Products Co., B. F., Akron, O.
Haveg Corp., Wilmington, Del. (PVC, polyester glass, phenolic, furan and epoxy resins)
Heil Process Equipment Corp., Cleveland, O.
Industrial Plastic Fabricators, Inc., Norwood, Mass. (Polyvinyl chloride, polyethylene)
Kaykor Industries, Inc., Yardville, N. J. (Rigid polyvinyl chloride)
Laminated Sheet Products Corp., Norwood, Mass.
Masland Duralcather Co., Philadelphia, Pa. (Polyvinyl chloride)
Minnesota Mining and Mfg. Co., Coated Abrasives and Related Products Div., St. Paul, Minn.
Modular Plastic Corp., Detroit, Mich.
Monsanto Chemical Co., Plastics Div., Springfield, Mass. (Polyethylene, vinyl)
Plastex Co., Columbus, O.
Rohm & Haas Co., Philadelphia, Pa. (Plexiglas)
Seiberling Rubber Co., Plastics Div., Newcomerstown, O. (PVC)
Starline Co., Dayton, O.

SHEET STORAGE RACKS

See Racks, Sheet Storage

SHEETS, TRANSLUCENT

See Panels, Plastic, Translucent Material

SHELVING, METAL

See Lockers, Metal

SHINGLES AND TILE, METAL

Berger Div., Republic Steel Corp., Canton, Ohio. (Galv.)
Fingles Co., Baltimore, Md. (All metals)
Labeled Metal Products Corp., Broadview, Ill. (Galvanized steel)
Miller & Doing, Brooklyn, N. Y.
Reynolds Metals Co., Richmond, Va. (Aluminum)
Wallace Co., William, Metalbestos Div., Belmont, Calif. (Painted tin and galv.)

SHUTTERS, DUCT

See Louvers and Shutters, Automatically or Manually Controlled

SHUTTERS, EXTERIOR WALL

See Louvers and Shutters

SIDING METAL

Aluminum Co. of America, Pittsburgh, Pa. (Aluminum)
Mirro Aluminum Co., Manitowoc, Wis. (Aluminum)
Reynolds Metals Co., Richmond, Va. (Aluminum)
Season-all, Indiana, Pa. (Aluminum)

SIGHT GLASSES

See Glasses, Sight for Refrigerant Lines

SKYLIGHT AND POWER VENTILATOR COMBINATIONS

Van Noorden Co., E., Boston, Mass.

SKYLIGHT LIFTS

See Lifts, Skylight

SKYLIGHTS

Architectural Plastics Inc., Westport, Conn.
Bowman Steel Corp., Pittsburgh, Pa.
Chemold Co., Santa Monica, Calif. (Fiber glass)
Consolidated General Products, Inc., Houston, Tex. (Plastic)
Fingles Co., Baltimore, Md.
Fisher Skylight, Inc., Brooklyn, N. Y.
Gehri Sheet Metal Co., Tacoma, Wash.
General Sheet Metal Works, Inc., Bridgeport, Conn.
Jenn Air Products Co., Indianapolis, Ind.
Laminated Sheet Products Corp., Norwood, Mass. (Plastic)
Marco Co., East Orange, N. J.
Moeschl-Edwards Corrugating Co., Inc., Cincinnati, Ohio.
Naturalite, Inc., Dallas, Tex. (Plastic)
Overly, Lloyd H., Maryville, Tenn.
Overly Mfg. Co., Greensburg, Pa.
PAM Co., The, Portland, Ore. (Plastic)
Pennsylvania Wire Glass Co., Philadelphia, Pa.
Perkinson, William J., Chicago, Ill.
Resolite Corp., Zelenople, Pa.
Riggin Metal Products, Kankakee, Ill.
Robertson Co., H. H., Pittsburgh, Pa.
Schoedinger, F. O., Columbus, Ohio.
Sioux Steel Co., Sioux Falls, S. D.
Super Steel Products Co., Milwaukee, Wis. (Extruded aluminum)
Tiffin Art Metal Co., Tiffin, Ohio.
Van Noorden Co., E., Boston, Mass.
Vent-O-Lite Co., Chicago, Ill.
Wasco Products, Inc., Cambridge, Mass.

SLIP-ON PIPE FITTINGS

See Fittings, Pipe, Slip-on

SLIP ROLL FORMERS

See Machines, Sheet Metal Working, Slip Roll Forming

SLITTING MACHINES

See Machines, Sheet Metal Working, Slitting

SMOKE GUNS AND CANDLES

See Bombs, Candles and Guns, Smoke, for Testing Air Movement

SMOKE PIPE

See Pipe and Fittings, Furnace

SNIPS, HAND

Bartlett Mfg. Co., Detroit, Mich.
Basford Co., H. R., San Francisco, Calif.
Bergman Tool Mfg. Co., Inc., Buffalo, N. Y.
Bingham-Harbrand Corp., Toledo, O.
Boker & Co., Inc., H., New York, N. Y.
Claus Cutlery Co., Fremont, O.
Compton Shear Co., W. H., Newark, N. J.
Crescent Tool Co., Jamestown, N. Y.
Diamond Tool and Horseshoe Co., Duluth, Minn.
H-P Tool Mfg. Corp., Philadelphia, Pa.
Interstate Drop Forge Co., Special Products Div., Milwaukee, Wis.
Klenk, Inc., Karl, Wilmington, Del.
Malco Products, Minneapolis, Minn.
Mephisto Tool Co., Inc., Hudson, N. Y.
Niagara Machine & Tool Works, Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Proto Tools, Los Angeles, Calif.
Snap-on Tools Corp., Kenosha, Wis.
Utica Drop Forge & Tool Div. of Kelsey-Hayes Co., Utica, N. Y.
Wiss & Sons Co., J., Newark, N. J.

SNIPS, LEVER

Bartlett Mfg. Co., Detroit, Mich.
Peck, Stow & Wilcox Co., Southington, Conn.
Whitney Metal Tool Co., Rockford, Ill.

SNOW GUARDS

See Guards, Snow

SOLAR HEAT REFLECTORS, METAL

See Canopies, Metal, Sun Reflecting

SOLDER, ALUMINUM

Air Reduction Sales Co., New York, N. Y.
All-State Welding Alloys Co., Inc., White Plains, N. Y.
Allen Co., L. B., Schiller Park, Ill.
Aluminum Co. of America, Pittsburgh, Pa.
American Solder & Flux Co., Philadelphia, Pa.
Anchor Metal Co., Inc., Brooklyn, N. Y.
Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y.
Empire Metal Co., Syracuse, N. Y.
Farrelloy Co., Philadelphia, Pa.
Fusion Engineering, Cleveland, O.
Glaser Lead Co., Inc., Brooklyn, N. Y.
Johnson Gas Appliance Co., Cedar Rapids, Ia.
Johnson Mfg. Co., Inc., Mt. Vernon, Ia.
Kester Solder Co., Chicago, Ill.
Lenk Mfg. Co., Franklin, Ky.
Lukens Metal Co., Thos. F., Philadelphia, Pa.
Modern Engineering Co., St. Louis, Mo.
Okun Co., Inc., South Ozone Park, N. Y.
Reynolds Metals Co., Richmond, Va.
Ultralloy Corp., Chicago, Ill.

SOLDER, LEAD-TIN

All-State Welding Alloys Co., Inc., White Plains, N. Y.
Allen Co., L. B., Schiller Park, Ill.
Alpha Metals, Inc., Jersey City, N. J.
American Products Corp., Chicago, Ill.

American Smelting and Refining Co., Federated Metals Div., New York, N. Y.

Anchor Metal Co., Inc., Brooklyn, N. Y.
Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y.
Bensen Co., Inc., Alex R., New Hartford, N. Y.
Bunker Hill Co., The, Sales & Fabrication Div., San Francisco, Calif.

Chase Brass & Copper Co., Inc., Waterbury, Conn.
Chicago Smelting & Refining Corp., Chicago, Ill.
Division Lead Co., Summit, Ill.

Dunton Co., M. W., Providence, R. I.
Empire Metal Co., Syracuse, N. Y.
Farrelloy Co., Philadelphia, Pa.
Flemm Lead Co., Inc., Long Island City, N. Y.
Fluxolder Products Co., Detroit, Mich.
Fusion Engineering, Cleveland, O.
Glaser Lead Co., Inc., Brooklyn, N. Y.
Hercules Chemical Co., Inc., New York, N. Y.
Hussey & Co., C. G., Pittsburgh, Pa.
Johnson Gas Appliance Co., Cedar Rapids, Ia.
Johnson Mfg. Co., Mt. Vernon, Ia.
Kester Solder Co., Chicago, Ill.
Kirk & Son, Inc., Morris P., Los Angeles, Calif.
Klauser Mfg. Co., Dubuque, Ia.
Lenk Mfg. Co., Franklin, Ky.
London Chemical Co., Melrose Park, Ill.
Lukens Metal Co., Thos. F., Philadelphia, Pa.
Mueller Brass Co., Port Huron, Mich.
National Lead Co., New York, N. Y.
New Delphos Mfg. Co., Delphos, O.
Ohmer Co., Geo. H., Dayton, O.
Revere Copper & Brass Inc., Foil Div., Brooklyn, N. Y.
RotoMetals, San Francisco, Calif.
Ruby Chemical Co., Columbus, O.
S. O. S. Products Co., Inc., Brooklyn, N. Y.
Tinit Mfg. Co., Inc., Denver, Colo.

SOLDER, SILVER

All-State Welding Alloys Co., Inc., White Plains, N. Y.
Allen Co., L. B., Schiller Park, Ill.
Alpha Metals, Inc., Jersey City, N. J.
American Silver Co., Inc., Flushing, N. Y.
Anchor Metal Co., Inc., Brooklyn, N. Y.
Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y.
Empire Metal Co., Syracuse, N. Y.
Engelhard Industries Inc., American Platinum and Silver Div., Newark, N. J.
Fusion Engineering, Cleveland, O.
Handy & Harman, New York, N. Y.
Lukens Metal Co., Thos. F., Philadelphia, Pa.
Mueller Brass Co., Port Huron, Mich.
Texas Instruments Inc., Metals & Controls Div., Attleboro, Mass.
United Wire & Supply Corp., Providence, R. I.
Wabash Corp., Chicago, Ill.

SOLDER, STAINLESS STEEL

All-State Welding Alloys Co., Inc., White Plains, N. Y.
Allen Co., L. B., Schiller Park, Ill.
Alpha Metals, Inc., Jersey City, N. J.
American Silver Co., Inc., Flushing, N. Y.
Anchor Metal Co., Inc., Brooklyn, N. Y.
Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y.
Division Lead Co., Summit, Ill.
Empire Metal Co., Syracuse, N. Y.
Farrelloy Co., Philadelphia, Pa.
Fusion Engineering, Cleveland, O.
Johnson Mfg. Co., Inc., Mt. Vernon, N. Y.
Kester Solder Co., Chicago, Ill.
Kirk & Son, Inc., Morris P., Los Angeles, Calif.
Lukens Metal Co., Thos. F., Philadelphia, Pa.
RotoMetals, San Francisco, Calif.

SOLDER, ZINC

Allen Co., Inc., L. B., Schiller Park, Ill.
All-State Welding Alloys Co., Inc., White Plains, N. Y.
Anchor Metal Co., Inc., Brooklyn, N. Y.
Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y.
Division Lead Co., Summit, Ill.
Empire Metal Co., Syracuse, N. Y.

Stoker-Ola Mfg. Co., Peoria, Ill.
 Stratton & Terstegge Co., Louisville, Ky.
 Sun-Fire Stoker Corp., New Albany, Ind.
 Tropic-Air Stoker Co., Canton, Ohio.
 Will-Burt Co., Orrville, Ohio.
 Worley Equipment Inc., Chicago, Ill.

STOKERS, INDUSTRIAL AND COMMERCIAL

61 lb to 300 lb per Hour

American Engineering Co., Div. of United Industrial Corp., Philadelphia, Pa.
 Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind.
 Auburn Burner Co., Auburn, Ind.
 Auburn Foundry, Inc., Heating Div., Auburn, Ind.
 Automatic Solid Fuels Equipment Co., Indianapolis, Ind.
 Canton Stoker Corp., Canton, Ohio.
 Carpenter Heating & Air Conditioning Co., Cleveland, Ohio.
 Cooper Stoker Co., Pittsfield, Mass.
 Detroit Stoker Co., Monroe, Mich.
 Diamond Castings Co., Inc., Johnsonburg, Pa.
 Eddy Stoker Corp., Wheeling, Ill.
 Electric Furnace Man, Inc., Emmaus, Pa.
 Flynn & Emrich Co., Baltimore, Md.
 Frederick Iron & Steel, Inc., Frederick, Md.
 Fuel Savers, Inc., Harrisburg, Pa.
 Gehl Bros. Mfg. Co., West Bend, Wis.
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Heating Assurance Inc., Spokane, Wash.
 Illinois Iron & Bolt Co., Carpentersville, Ill.
 Iron Fireman Mfg. Co., Cleveland, Ohio.
 Kol-Master Corp., Oregon, Ill.
 Leas Co., H. Leslie, Monona, Iowa.
 Meyer Furnace Co., Peoria, Ill.
 Nelson Bros. & Strom Co., Racine, Wis.
 Ormsby-Osterman Co., St. Louis, Mo.
 Premium Coal & Oil Co., Cincinnati, Ohio.
 Schwab Safe Co., Lafayette, Ind.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Lebanon, Ind.
 Stoker-Ola Mfg. Co., Peoria, Ill.
 Stratton & Terstegge Co., Louisville, Ky.
 Sun-Fire Stoker Corp., New Albany, Ind.
 Tropic-Aire Stoker Co., Canton, Ohio.
 Whiting Fire Power Products Corp., Superior, Wis.
 Whitty Co., Inc., Boston, Mass.
 Will-Burt Co., Orrville, Ohio.
 Woolley Engineering Co., Detroit, Mich.
 Worley Equipment Inc., Chicago, Ill.

STORE TYPE AIR CONDITIONERS

See Unitary Air Conditioners, Summer, Self-Contained, Store Type

STOVE REPAIR PARTS

See Parts, Rebuilt, for Heating and Cooling Systems

STRAINERS, REFRIGERATION SYSTEM

See Driers and Strainers, Refrigeration System

STUDS, POWDER ACTIVATED

Schoenberg, Inc., August, West Englewood, N. J.

STUDS, WELDING, FOR CURTAIN WALL PANELS

Graham Mfg. Corp., New England Industrial Center, Needham Hts., Mass.
 K.S.M. Products Inc., Moorestown, N. J.
 Nelson Stud Welding Div., Gregory Industries, Inc., Lorain, O.
 Shielded Stud Welding Co., Long Beach, Calif.

STUD WELDING GUN

See Guns, Welding, Stud

SUMMER COOLING UNITS

See Unitary Air Conditioners, Summer

SUPPLEMENTAL ELECTRIC HEATING UNIT FOR HEAT PUMP AND OTHER DUCT APPLICATIONS

See Heaters, Duct, Electric

SUPPORTS, SHEET, MAGNETIC

American Actuator Corp., Stamford, Conn.
 Wyson & Miles Co., Greensboro, N. C.

SWITCHES FOR CONTROLLING SHEET METAL WORKING EQUIPMENT

See Control Switches for Sheet Metal Equipment

SWITCHES, MAGNETIC, MANUAL, TIME

See Controls

SYSTEMS, AIR BALANCING

Viking Air Products Div. of The Lau Blower Co., Cleveland, O.

SYSTEMS, FUEL OIL PUMPING

For Overhead Unit Heaters and Furnaces

Barclay, Inc., Robert, Chicago, Ill.
 Sundstrand Hydraulics, Rockford, Ill.
 Tuthill Pump Co., Chicago, Ill.
 Webster Electric Co., Racine, Wis.

SYSTEMS, HEATING, SMALL PIPE

Consisting of furnace, plenum chamber, takeoff fittings, boots, elbows, small pipe

Adelta Mfg. Co., Philadelphia, Pa.
 Char-Gale Mfg. Co., Anoka, Minn.
 Coleman Co., Inc., Wichita, Kans.
 Hawthorne Mfg. Corp., Hawthorne, Pa.
 Henry Furnace Co., Medina, O.
 Inland Steel Products Co., Milwaukee, Wis.
 J & J Sheet Metal Co., Warren, Mich.
 Lennox Industries Inc., Marshalltown, Iowa.
 Majestic Co., Inc., Huntington, Ind.
 Premier Furnace Co., Dowagiac, Mich.
 Ralph Mfg. Co., Inc., Wadsworth, O.
 Temco Inc., Nashville, Tenn.
 Williamson Co., The, Cincinnati, O.

SYSTEMS, HEATING AND VENTILATING, GAS OR OIL FIRED, WARM AIR, FOR SCHOOL CLASSROOMS

Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Lennox Industries Inc., Marshalltown, Ia.
 Norman Products Co., Columbus, O.
 Williams Furnace Co., Buena Park, Calif.

SYSTEMS, VENTILATING, FOR KITCHENS AND BATHROOMS

Consisting of duct, hoods, grilles, exhaust fans and back draft dampers

Lau Blower Co., Dayton, O.
 Ventrola Mfg. Co., Owosso, Mich.

TANK GAGES, FUEL OIL

See Gages, Tank, Fuel Oil

Eutectic Welding Alloys Corp., Flushing, N. Y.
Glaser Lead Co., Inc., Brooklyn, N. Y.

SOLDERING COPPERS

See Tools, Hand

SOLDERING FLUX

See Flux

SOLDERING FURNACES

See Furnaces, Soldering

SOLDERING TORCHES

See Torches, Soldering

SOLENOID VALVES

See Valves, Solenoid

SOLVENTS, TANK, FUEL OIL

Ampion Corp., Long Island City, N. Y.
Barclay, Inc., Robert, Chicago, Ill.
Bethendale Corp., Euclid, O.
Columbia Bedford Corp., New York, N. Y.
Coopers Creek Chemical Corp., West Conshohocken, Pa.
Dearborn Chemical Co., Chicago, Ill.
Document House, Chemicals Div., Greenwich, Conn.
du Pont de Nemours and Co., Inc., E. I., Wilmington, Del.
Hasko Utilities Co., New York, N. Y.
Metropolitan Refining Co., Inc., Long Island City, N. Y.
Miller Product Co., Lansing, Mich.
Montgomery Chemical Co., Jenkintown, Pa.
Morheat Corp., Cincinnati, O.
Nalco Chemical Co., Chicago, Ill.
Norman Chemical Co., St. Paul, Minn.
North American Mogul Products Co., Cleveland, O.
Oakite Products Inc., New York, N. Y.
Pennsylvania Refining Co., Ohio Div., Cleveland, O.
Petroleum Solvents Corp., New York, N. Y.
Radiator Specialty Co., Charlotte, N. C.
Red Wing Oil Burner Co., Inc., Medford, Mass.
S. O. S. Products Co., Inc., Brooklyn, N. Y.
Schaefer Chemical Products Co., Saginaw, Mich.
Schneible Co., Claude B., Detroit, Mich.
Sexauer Mfg. Co., Inc., J. A., New York, N. Y.
Shell Oil Co., New York, N. Y.
Stewart-Hall Chemical Corp., Mt. Vernon, N. Y.

SOOT REMOVER

See Remover, Soot

SOUND LEVEL METERS

See Meters, Sound Level

SOUND TRAPS

*See Absorbers, Sound, Prefabricated
Duct Section, for Noise Control in Duct Systems*

SPIRAL PIPE FOR HIGH VELOCITY AIR SYSTEMS

See Ducts, Spiral, Welded

SPLIT SYSTEMS, AIR CONDITIONING

*See Unitary Air Conditioners, Summer Split System; Unitary Air
Conditioners, Winter, Split System*

SPOT WELDERS

See Welders, Spot

SPRAY GUNS

See Guns, Spray

STAINLESS STEEL SHEETS

See Sheets, Metal, Steel, Stainless

STAMPINGS, STEEL FURNACE

Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
Commercial Shearing & Stamping Co., Youngstown, Ohio. (Heads
for furnace domes & crescent radiators)
Detroit Stamping Co., Detroit, Mich.
Mohawk Metal Products Co., Frankfort, N. Y. (Furnace shells
and radiators)
Mt. Vernon Furnace & Mfg. Co., Mt. Vernon, Ill.

STEEL TUBING

See Tubing, Steel

STERILIZERS, AIR

Air-Heet Corp., Chicago, Ill.
Atlantic Ultraviolet Co. Inc., Long Island City, N. Y.
English Engineering Co., Abilene, Tex.
Germatrol Corp., Pittsburgh, Pa.
Hanovia Lamp Div., Engelhard Hanovia, Inc., Newark, N. J.
Harvey-Hill, Inc., St. Louis, Mo.
Melco Products, Inc., Minneapolis, Minn.
Ozo Sales Corp., New Haven, Conn.
Sampson Scientific Corp., Chicago, Ill.
Vita-Aire Process Co., Inc., Milwaukee, Wis. (Produces nega-
tively ionized air)

STITCHING MACHINES, METAL

See Machines, Sheet Metal Working, Crimping

STOKER CONTROLS

See Controls; Control Systems

STOKERS, DOMESTIC

Up to 61 lb per Hour

Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind.
Auburn Burner Co., Auburn, Ind.
Auburn Foundry, Inc., Heating Div., Auburn, Ind.
Automatic Solid Fuels Equipment Co., Indianapolis, Ind.
Canton Stoker Corp., Canton, Ohio.
Carpenter Heating & Air Conditioning Co., Cleveland, Ohio.
Cooper Stoker Co., Pittsfield, Mass.
Eddy Stoker Corp., Wheeling, Ill.
Electric Furnace-Man, Inc., Emmaus, Pa.
Frederick Iron & Steel, Inc., Frederick, Md.
Front Rank Mfg. Co., Div. Gross Aire Mfg. Co., St. Louis, Mo.
Gehl Bros. Mfg. Co., West Bend, Wis.
Hall-Neal Furnace Co., Indianapolis, Ind.
Heating Assurance, Inc., Spokane, Wash.
Hershey Motorstokor, Inc., Manheim, Pa.
Illinois Iron & Bolt Co., Carpentersville, Ill.
Iron Fireman Mfg. Co., Cleveland, Ohio.
Kol-Master Corp., Oregon, Ill.
Leas Co., H. Leslie, Monona, Iowa.
Loline Steel Boiler Co., Allentown, Pa.
Meyer Furnace Co., Peoria, Ill.
Nelson Bros. & Strom Co., Racine, Wis.
Premium Coal & Oil Co., Cincinnati, Ohio.
Schwab Safe Co., Lafayette, Ind.
Stewart-Warner Corp., Heating and Air Conditioning Div.,
Lebanon, Ind.

TOOLS, HAND

Adre Co., The, Milwaukee, Wis. (Electric contact burnisher)
 Airserco Mfg. Co., Pittsburgh, Pa. (Instruments for diagnosing malfunctions in refrigeration equipment, electric thermometer)
 Air-Speed Tool Co., Los Angeles. (Pneumatic saw and file)
 Allen, H. D., Los Angeles, Calif. (Template transfer punches)
 American Electrical Heater Co., Detroit, Mich. (Soldering irons)
 American Saw & Mfg. Co., Inc., Springfield, Mass. (Hack saws)
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, O. (Refrigerating system evacuating pump)
 Atkins Saw Div., Borg-Warner Corp., Greenville, Miss. (Hack saws)
 Basford Co., H. R., San Francisco, Calif. (Pliers, wrenches)
 Bell Machine Specialties, Trevese, Pa. (Manual lock seaming hammer assembly)
 Bergman Tool Mfg. Co., Inc., Buffalo, N. Y. (Hand shears)
 Black & Decker Mfg. Co., Towson, Md. (Automatic screw driver, portable electric tapper, portable jig saw)
 Boker & Co., Inc., New York, N. Y. (Double cutting pipe snips, pliers and wrenches)
 Bonney Forge & Tool Works, Alliance, O. (Wrenches, screw drivers, flaring sets, pliers and socket sets)
 Bostitch, East Greenwich, R. I. (Stapling tacker for insulation, stapling hammer)
 Brush Nail Expansion Bolt Co., Greenwich, Conn. (Masonry drills)
 By-Buk Co., Los Angeles, Calif. (Adhesive corner pads)
 C W R Mfg. Co., Morro Bay, Calif. (Crimpers, clamps)
 Champion DeArment Tool Co., Meadville, Pa. (Pliers, rivet hammers, tinners hammer)
 Chicago Pneumatic Tool Co., New York, N. Y. (Pneumatically operated files)
 Clemson Bros., Inc., Middletown, N. Y. (Hack Saws)
 Clipper Mfg. Co., Kansas City, Mo. (Concrete drill bits)
 Columbian Vise & Mfg. Co., Cleveland, O. (Vise, levels)
 Continental Drill Corp., Chicago, Ill. (Drill bits)
 Crescent Tool Co., Jamestown, N. Y. (Scratch awls, pliers, screw drivers, wrenches)
 Dalsin Metal Products, Minneapolis, Minn. (Ladder jack)
 Damascus Steel Products Corp., Rockford, Ill. (Punches, chisels, scratch awl, screw drivers, star drills, nippers, etc.)
 Davis & Son Machine Works, Los Angeles, Calif. (Clip & button punch)
 Dayton Rogers Mfg. Co., Minneapolis, Minn. (Edge scriber)
 Desmond-Stephan Mfg. Co., Urbana, O. (Sheet metal worker's vise)
 Detroit Stamping Co., Detroit, Mich. (Toggle clamps)
 Diamond Tool and Horseshoe Co., Duluth, Minn. (Pliers, wrenches)
 Division Lead Co., Summit, Ill. (Lead hammers)
 dot-N-dasher, N. Miami Beach, Fla.
 draftette Corp., Beverly Hills, Calif. (Portable drafting set)
 Duro-Dyne Corp., Farmingdale, N. Y. (File and solder iron handles, metal scribers)
 Duro Metal Products Co., Chicago, Ill. (Wrenches)
 Elgen Mfg. Corp., Long Island City, N. Y. (Portable hand brake)
 Engesser & Co., William L., El Monte, Calif. (Tube flaring tool)
 Eriez Mfg. Co., Erie, Pa. (Fanner magnet)
 Estwing Mfg. Co., Rockford, Ill. (Tinners hammers)
 Everard Tap & Die Corp., New York, N. Y. (Taps, dies, gages, reamers)
 Fairbate Rule Co., Cold Spring, N. Y. (Rigid metal rule)
 Fairmount Tool & Forging Inc., Unit of Houdaille Industries, Inc., Cleveland, O. (Calking irons, pipe wrenches, file holders, pliers, solder paddle, tubing cutters, flaring tools, gear pullers, screw drivers, wrenches, hammers)
 Fallsington Mfg. Co., Fallsington, Pa. (Clip punch, drive cleat notcher)
 Fastening Devices, Inc., Brooklyn, N. Y. (Hand driven stud drivers)
 Fastway Fasteners, Inc., Lorain, O. (Stud driver for masonry and steel)
 Garland Mfg. Co., Saco, Maine (Hammers and mallets)
 General Electric Co., Metallurgical Products Dept., Detroit, Mich. (Concrete drills)
 Grand Specilates Co., Chicago, Ill. (C-clamp)
 Greist Mfg. Co., New Haven, Conn. (Scriber)
 H-P Tool Mfg. Corp., Philadelphia, Pa. (Punches, chisels, edge tools)
 Halbee Products Co., Parma, Mich. (Hack saw)
 Hamlin Co., Inc., San Francisco, Calif. (Masonry drills)
 Hexdall Co., A. M., Morris, Ill. (Seam openers & lock hammers)
 Hilti, Inc., Rapid Fastening Systems, Stamford, Conn. (Stud driver for masonry and steel)

Hub Specialty Co., Reading, Mass. (Awl)
 Hussey & Co., C. G., Pittsburgh, Pa. (Soldering coppers)
 Imperial Brass Mfg. Co., Chicago, Ill. (Tube cutters; tube benders; tube flaring, reaming and pinchoff tools; ratchet wrench)
 International Staple and Machine Co., Materials Handling Div., Herrin, Ill. (Vacuum sheet lifter)
 Interstate Drop Forge Co., Special Products Div., Milwaukee, Wis. (Button presses, squeezeer tongs)
 Interstate Sales Co., New York, N. Y. (Angle meters & center finders)
 Johnson Ladder Shoe Co., Eau Claire, Wis. (Rubber ladder shoes, vise jaws, rubber mallets)
 Kennametal Inc., Latrobe, Pa. (Masonry & rock drill bits)
 Kennedy Products Co., Phoenix, Ariz. (Bronze, fiber, rubber and aluminum vise jaw plates)
 Klenk, Inc., Karl, Wilmington, Del. (Crimper)
 Lapeer Mfg. Co., Detroit, Mich. (Vise wrench, toggle clamps)
 Leslie Creations, Lafayette Hill, Pa. (Portable drawing board)
 Levow, Inc., David, South Hackensack, N. J. (Portable saw gun, sheet metal clamp, hoisting hook, drill saw attachment)
 Lufkin Rule Co., Saginaw, Mich. (Flat steel rules, tapes, circumference and center punches, scribers)
 Lyon Metal Products, Inc., Aurora, Ill. (Stock cart, tool stand, tool boxes & work benches)
 Madden Brass Products Co., Aurora, Ill. (Tube working tools, refrigerant charging manifold)
 Malco Products, Minneapolis, Minn. (Pipe crimpers, duct holder clamps, seamers, notchers, snap lock punches, scratch awls, riveting and setting hammer, hack saw frames and blades, folding tools, hex key wrenches, dividers, screw drivers, compass saws and blades)
 Markal Co., Chicago, Ill. (Sheet marking crayon)
 Markwell Mfg. Co., Inc., New York, N. Y. (Insulation stapler)
 Mephisto Tool Co., Inc., Hudson, N. Y. (Caulking irons, hack saws, hammers, pliers, screw drivers, chisels)
 Merchandising & Mfg. Associates, Inc., Lancaster, Pa. (Cutters, shrinkers, stretchers, aluminum file handles)
 Metalcraft Engineering Co., Lincoln, Nebr. (Drive cleat edge turner)
 Millers Falls Co., Greenfield, Mass. (Hole saws, saw attachment)
 Milwaukee Electric Tool Corp., Milwaukee, Wis. (Hack saw)
 Misener Mfg. Co., Inc., Syracuse, N. Y. (Hole saws)
 Modern Mfg. Co. Inc., Willow Grove, Pa. (Portable electric punch)
 Momar Industries, Chicago, Ill. (Blueprint racks)
 Montgomery Specialty Co., Inc., Paterson, N. J. (Gutter clamp)
 Moser & Son Mfg. Co., Bluffton, Ind. (Spouting tripods)
 Multifinish Mfg. Co., Detroit, Mich. (Magnetic floor sweepers, magnetic lifter)
 New England Carbide Tool Co., Inc., Medford, Mass. (Masonry drill bits)
 Niagara Machine & Tool Works, Buffalo, N. Y. (Stakes, hammers, groovers, pipe crimpers, hollow punches, etc.)
 Nobur Mfg. Co., North Hollywood, Calif. (Deburring tool)
 Omark Industries, Inc., Portland, Ore. (Masonry stud driver)
 Osborne & Co., C. S., Harrison, N. J. (Rivet sets)
 Overland Sheet Metal Co., Overland, Mo. (Duct cincher, seam opener, metal marker, brake mold)
 Owatonna Tool Co., Owatonna, Minn. (Wrenches, tube flaring tools, tube cutters, tube benders, wheel pullers, pliers, screw drivers, chisels, punches, hack saws, hammers)
 Owens Co., H., Culver City, Calif. (Pattern developer)
 Packham Crimper Co., Mechanicsburgh, Ohio. (Crimping tongs)
 Parker Fittings & Hose Div., Parker-Hannafin Corp., Cleveland, O. (Tube flaring sets, tube cutters, tube benders)
 Peck, Stow & Wilcox Co., Southington, Conn. (Hammers, awls, rivet sets, groovers, wing dividers, circumference rules, ferrule formers, stakes)
 Penn Brass & Copper Co., Erie, Pa. (Flaring tools)
 Pennsylvania Saw Corp., Newark, N. J. (Hand saw set)
 Petersen Mfg. Co., Inc., DeWitt, Nebr. (Clamps)
 Pioneer Tool Co., Racine, Wis. (Pipe crimpers, trammels, extension benches, gutter clamps, adjustable saw handles, scratch awls, ladder brackets)
 Power-Line Sales, Inc., Detroit, Mich. (Stapler)
 Profit Products Corp., Glen Ellyn, Ill. (Awls)
 Proto Tools, Los Angeles, Calif. (Screw drivers, wrenches, sockets, hammers, pliers, chisels)
 Ramset Fastening System, Winchester-Western Div., Olin Mathieson Chemical Corp., New Haven, Conn. (Powder-actuated masonry and steel screw driver)
 Rapidesign, Inc., Glendale, Calif. (Templates)
 Rawlplug Co., Inc., The, New Rochelle, N. Y. (Masonry drills hammer attachment for drills)
 Reiner & Campbell Co., Inc., Newark, N. J. (Dividers & notchers, seam tongs, clip punches)

TANK PATCHING MATERIALS

See Materials, Patching, Tank

TANK SOLVENTS

See Solvents, Tank, Fuel Oil

TANKS, FUEL OIL, ACCESSORIES

Air-Maze Corp., Cleveland, O. (Tank vent flame arresters)
Airtherm Mfg. Co., St. Louis, Mo.
Bearlee Products Co., Green Bay, Wis. (Vent caps)
Furblo Co., Hermansville, Mich. (Stand)
Gasoilair Equipment Co., New Haven, Conn.
Guardian Products Corp., Valve Div., Michigan City, Ind. (Valve)
Harvey, Inc., Sid, Valley Stream, N. Y. (Patching materials)
Johns Mfg. Co., Middlesex, N. J. (Sludge and corrosion controller)
Mel-Gauge Co., New Haven, Conn. (Fittings and bushings)
Morse-Smith-Morse Co., Watertown, Mass. (Vent caps and valves)
Oil Equipment Mfg. Co., New Haven, Conn. (Oil storage tank fittings, vent caps, fill boxes)
Rockford Brass Works, Rockford, Ill.
Scully Signal Co., Melrose, Mass. (Vent cap, St. spout)
Simplex Distributors, Inc., Brooklyn, N. Y. (Fill boxes, vent caps, curb boxes)
Universal Valve Co., Elizabeth, N. J. (Fittings, tank valves and bushings)

TANKS, STORAGE, FUEL

Airtherm Mfg. Co., St. Louis, Mo.
Black, Sivals & Bryson, Inc., Kansas City, Mo.
Furblo Co., Hermansville, Mich.
Kaustine Furnace & Tank Corp., Perry, N.Y.
Koven & Bro., Inc., L. O., Dover, N. J.
Mohawk Metal Products Co., Inc., Frankfort, N. Y.
Nooter Corp., St. Louis, Mo.
Pennsylvania Furnace & Iron Co., Warren, Pa.
Rheem Mfg. Co., New York, N. Y.
Schneible Co., Claude B., Detroit, Mich.
Snappy Inc., Detroit Lakes, Minn.
Thor Metal Products Co., Inc., Syracuse, N. Y.
Vega Industries, Inc., Syracuse, N. Y.

TAPE, DUCT, ADHESIVE

For Sealing Joints

Adhesive Tape Corp., Brooklyn, N. Y.
American Tape Co., Detroit, Mich.
Arno Adhesive Tapes, Inc., Michigan City, Ind.
Cain Mfg. Inc., Birmingham, Ala.
Continental Tapes, Cayce, S. C.
Duro-Dyne Corp., Farmingdale, N. Y.
Elgen Mfg. Corp., Long Island City, N. Y.
Hampton Mfg. Co., Industrial Tape Div., New Rochelle, N. Y.
Kendall Co., The, Chicago, Ill.
Mystik Adhesive Products Inc., Chicago, Ill.
Permacel, New Brunswick, N. J.
Products Research Co., Burbank, Calif.
Shuford Mills Inc., Hickory, N. C.
Wilson, Inc., Grant, Chicago, Ill.

TEES

See Angles, Bars, Beams, Channels, and Tees

TEMPERATURE CONTROLS

See Controls, Control Systems

TEMPERATURE RECORDERS

See Recorders, Temperature

TESTERS, SMOKE

Bacharach Industrial Instrument Co., Pittsburgh, Pa.

Dwyer Mfg. Co., F. W., Michigan City, Ind.
Hill & Co., E. Vernon, Lake Geneva, Wis.

TESTING EQUIPMENT, AIR FLOW

See Bombs, Candles and Guns, Smoke

THERMOMETERS, INDICATING

Airguide Instrument Co., Chicago, Ill.
Bacharach Industrial Instrument Co., Pittsburgh, Pa.
Bailey Meter Co., Cleveland, Ohio.
Barber-Colman Co., Rockford, Ill.
Bristol Co., Waterbury, Conn.
Daystrom-Weston Sales Div., Daystrom Inc., Newark, N. J.
Defender Instrument & Regulator Co., Boody, Ill.
Dickson Co., Chicago, Ill.
Foxboro Co., Foxboro, Mass.
G. M. Mfg. Co., New York, N. Y.
General Scientific Equipment Co., Philadelphia, Pa.
H-B Instrument Co., Philadelphia, Pa.
Hill & Co., E. Vernon, Lake Geneva, Wis.
Illinois Testing Laboratories, Inc., Chicago, Ill.
Leeds & Northrup Co., Philadelphia, Pa.
Manning, Maxwell & Moore, Inc., Stratford, Conn.
Marsh Corp., Jas. P., Skokie, Ill.
Marshalltown Mfg. Co., Marshalltown, Iowa.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Moeller Instrument Co., Richmond Hill, N. Y.
Palmer Thermometers, Inc., Cincinnati, Ohio.
Philadelphia Thermometer Co., Philadelphia, Pa.
Powers Regulator Co., Skokie, Ill.
Precision Thermometer & Instrument Co., Philadelphia, Pa.
Rochester Mfg. Co., Inc., Rochester, N. Y.
Simpson Electric Co., Chicago, Ill.
Taylor Instrument Companies, Rochester, N. Y.
United States Gauge Div., American Machine & Metals Inc., New York, N. Y.
Victory Engineering Corp., Union, N. J.
Weksler Instruments Corp., Freeport, N. Y.
Wheelco Instruments Div., Barber Colman Co., Rockford, Ill.

THERMOSTATS

See Controls, Thermostats

THROUGH WALL FLASHINGS

See Flashings, Through Wall

TIME SWITCHES

See Controls, Switches, Time

TIMERS, WELDING

Alphil Spot Welder Mfg. Corp., Brooklyn, N. Y.
Automatic Timing & Controls, Inc., King of Prussia, Pa.
Eisler Engineering Co., Newark, N. J.
General Electric Co., Apparatus Sales Offices, Schenectady, N. Y.
Peer, Inc., Benton Harbor, Mich.
Photoswitch Div., Electronics Corp. of America, Cambridge, Mass.
Sciaky Bros., Inc., Chicago, Ill.
Westinghouse Electric Corp., Pittsburgh, Pa.

TINNERS FIREPOTS

See Furnaces, Soldering

TINNING

See Baths, Tinning

TIPS, DAMPER

See Clips and Tips, Damper

Relton Corp., Pasadena, Calif. (Concrete drill bits)
 Reuter Mfg. Co., Menomonee Falls, Wis. (Duct hanger)
 Robinair Mfg. Corp., Sub. Kent-Moore Organization, Inc.,
 Montpelier, O. (Refrigerant charging cylinders, swedging
 tool, test cords)
 Rolas Products Corp., Newark, N. J. (Ladder leveler)
 Rotary Concrete Drill Co., Pasadena, Calif. (Drill bits)
 Safety Nail Driver Corp., Clifton, N. J. (Masonry nail driver)
 Samson Drill Co., Bronx, N. Y. (Drill bits)
 Schaefer Brush Mfg. Co., Milwaukee, Wis. (Steel brushes,
 pipe, tube and fitting cleaning brushes)
 Schaul Mfg. Co., Cleveland, O. (Flaring tools)
 Schild Mfg. Co., Beaver Dam, Wis. (Sheet metal cutter)
 Scotco Products Co., Beverly, Mass. (Soldering gun)
 Skil Corporation, Chicago, Ill. (Portable power tools)
 Sheridan-Gray, Inc., Palos Verdes Estates, Calif.
 Simonds Saw & Steel Co., Fitchburg, Mass. (Metal files)
 Snap-on Tools Corp., Kenosha, Wis. (Wrenches, hammers, pliers)
 Starbuck & Sons, Inc., R. M., Hartford, Conn. (Rotary hole
 cutter)
 Star Expansion Industries Corp., Mountainville, N. Y. (Stud driv-
 ers)
 Stern Bros. Plumbing Supply Co., Cleveland, O.
 Stortz & Son, Inc., John, Philadelphia, Pa. (Hammer, punches,
 chisels, rivet sets)
 Superior Valve and Fittings Co., Pittsburgh, Pa. (Access valve
 for hermetic refrigeration system)
 Tel-Tru Mfg. Co., Rochester, N. Y. (Thermometer)
 Thompson & Sons Co., Henry G., New Haven, Conn. (Hole
 saws, hack saws)
 Time Saver Tools, Inc., Mundelein, Ill. (Drill bits)
 Topflight Corp., York, Pa. (Jigs, riveters, dimplers, rivet remov-
 ers, scribing discs)
 Truco Masonry Drilling Div., Wheel Trueing Co., Detroit,
 Mich. (Concrete drill)
 Union Steel Chester Corp., LeRoy, N. Y. (Metal tool boxes
 and chests)
 U.S. Expansion Bolt Co., York, Pa. (Manual stud driver for
 masonry and steel)
 Utica Drop Forge & Tool Div. of Kelsey-Hayes Co., Utica, N. Y.
 (Non-ferrous lap-welding dies, pliers, adjustable wrenches,
 screw drivers, punches)
 Vac-U-Mation Div., F. J. Littell Machine Co., Chicago, Ill.
 (Vacuum sheet lifter)
 Vulcan Electric Co., Div. Consolidated Electric Lamp Co., Inc.,
 Danvers, Mass. (Electric solder pots)
 Wassco Glo-Melt Div., American Electrical Heater Co.,
 Detroit, Mich. (Electric soldering tools for copper tubing
 joints)
 Weatherhead Co., Ft. Wayne Div., Fort Wayne, Ind. (Tube flar-
 ing sets, swaging tools, tube cutters, tube benders)
 Wedgelock Corp., North Hollywood, Calif. (Jig fasteners,
 clamps, sheet metal fasteners)
 Whipple Sheet Metal Works, Inc., Lansing, Mich. (Clamps)
 Whitney Mfg. Co., W. A., Rockford, Ill. (Riveting and setting
 hammers, portable lever punches, punches and dies, shears,
 notching punches)
 Whitney Metal Tool Co., Rockford, Ill. (Aircraft rivet squeezers,
 hand seamers, rivet sets, hand crimpers, awls)
 Wilder Mfg. Co., Inc., Salinas, Calif. (Punches)
 Williams and Co., J. H., Buffalo, N. Y. (Wrenches)
 Wilson Mfg. Co., Memphis, Tenn. (Pinch-off tool, screw
 drivers, key wrenches, tube flaring sets, tube benders, tube
 cutters and tube swedgers)
 Yeats Appliance Dolly Sales Co., Milwaukee, Wis. (Hand truck)

TOOLS, OIL BURNER

Boston Machine Works, Lynn, Mass. (Nozzle extractor)
 Delavan Mfg. Co., West Des Moines, Ia. (Nozzle tool kits,
 inspection mirror, nozzle changer, serviceman's kit, flame
 inspection mirror)
 Eddington Metal Specialty Co., Eddington, Pa. (Inspection mirror)
 Jay-Zee Mfg. Co., Chicago Ridge, Ill. (Oil pump tester)
 Scully Signal Co., Melrose, Mass. (Electrode gage setter, burner
 and control tester)
 Shepard, Herman, Newton Upper Falls, Mass. (Firing rate ad-
 justment meter)
 Simplex Distributors, Inc., Brooklyn, N. Y. (Fill box wrenches)

TOOLS, ROOFERS'

Adams Co., Dubuque, Iowa. (Scaffold brackets)
 Aeroil Products Co., Inc., South Hackensack, N. J. (Melting
 kettles, hoists, buckets & accessories)
 Ajax Building Bracket Co., Cleveland, Ohio. (Brackets)

Belden Machine Co., New Haven, Conn. (Hammers rippers &
 stakes)
 Dalsin Metal Products, Minneapolis, Minn. (Roof ladders)
 Eisco Products Co., Syracuse, N. Y. (Roof scrapers)
 Frey & Co., Frank P., Chicago, Ill. (All kinds)
 Hauck Mfg. Co., Brooklyn, N. Y. (Kettles)
 Johnson Ladder Shoe Co., Eau Claire, Wis. (Rubber knee pads)
 Levow, Inc., David, South Hackensack, N. J. (Roof scrapers, metal
 mop handle)
 Littleford Bros., Inc., Cincinnati, Ohio. (Roofing kettles)
 Matt Coil-Less Burner Co., Chicago, Ill. (Buckets, mops, kettles,
 etc.)
 Moser & Son Mfg. Co., Bluffton, Ind. (Ladder jacks)
 Niagara Machine & Tool Works, Buffalo, N. Y. (Double
 seamers)
 Owens-Corning Fiberglas Corp., New York, N. Y. (Fiberglas mop
 yarn)
 Peck, Stow & Wilcox Co., Southington, Conn. (Seamers, tongs,
 etc.)
 Rose Mfg. Co., Denver, Colo. (Ladder shoes)
 Stortz & Son, Inc., John, Philadelphia, Pa. (Tongs, seamers,
 scrapers, jointers, punches, hammers, rippers, stakes)

TOPS, CHIMNEY

See Caps and Tops, Chimney

TORCHES, BRAZING, CUTTING, WELDING AND OXY-ACETYLENE

Aeroil Products Co., Inc., South Hackensack, N. J.
 Air Products, Inc., Allentown, Pa.
 Air Reduction Sales Co., New York, N. Y.
 American Products Corp., Chicago, Ill.
 Bastian-Blessing Co., Chicago, Ill.
 Black Mfg. Co. Div., Alexander Milburn, Inc., Baltimore, Md.
 Dockson Corp., Detroit, Mich.
 General Dynamics Corp., Liquid Carbonic Div., Chicago, Ill.
 Goss Gas, Inc., Glenshaw, Pa.
 Harris Caloric Co., Cleveland, Ohio.
 Hobart Bros. Co., Troy, O.
 Ideas, Inc., Laramie, Wyo. (Circle and hole cutting attachment)
 Insto-Gas Corp., Detroit, Mich.
 K-G Equipment Co. (Inc.), Allentown, Pa.
 Lincoln Electric Co., Cleveland, O.
 Linde Co., Div. Union Carbide Corp., New York, N. Y.
 Marquette Mfg. Co., Div. of Marquette Corp., Minneapolis,
 Minn.
 Mid-States Welder Mfg. Co., Chicago, Ill.
 Minn-Kota Foundry & Mfg. Co., Moorhead, Minn.
 Modern Engineering Co., St. Louis, Mo.
 National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
 National Welding Equipment Co., San Francisco, Calif.
 Ransome Torch & Burner Co., Emeryville, Calif.
 Reiner & Campbell Co., Inc., Newark, N. J.
 Rexarc, Inc., Sight Feed Generator Div., West Alexandria, O.
 Smith Welding Equipment Corp., Minneapolis, Minn.
 Victor Equipment Co., San Francisco, Calif.
 Weldit, Inc., Detroit, Mich.

TORCHES, SOLDERING

Acet-A-Tips Co., Chicago, Ill.
 Air Reduction Sales Co., New York, N. Y.
 Bastian-Blessing Co., Chicago, Ill.
 Bernz Co., Otto, Rochester, N. Y.
 Clayton & Lambert Mfg. Co., Louisville, Ky.
 Dockson Corp., Detroit, Mich.
 General Dynamics Corp., Liquid Carbonic Div., Chicago, Ill.
 Goss Gas, Inc., Glenshaw, Pa.
 Harris Caloric Co., Cleveland, Ohio.
 Hones, Inc., Charles A., Baldwin, N. Y. (Gas)
 Insto-Gas Corp., Detroit, Mich.
 Johnson Gas Appliance Co., Cedar Rapids, Iowa.
 Kidde Mfg. Co., Inc., Bloomfield, N. J.
 Kuehn Tool Co., Roselle, N. J.
 Lenk Mfg. Co., Franklin, Ky.
 Linde Co., Div. Union Carbide Corp., New York, N. Y.
 Marquette Mfg. Co., Div. of Marquette Corp., Minneapolis,
 Minn.
 Minn-Kota Foundry & Mfg. Co., Moorhead, Minn.
 Modern Engineering Co., St. Louis, Mo.
 Mutual Liquid Gas & Equipment Co., Gardena, Calif.
 National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
 National Welding Equipment Co., San Francisco, Calif.
 Prepo Corp., Edgerton, Wis.

Ransome Torch & Burner Co., Emeryville, Calif.
 Reiner & Campbell Co., Inc., Newark, N. J.
 Reliable Mach. & Mfg. Co., Inc., Cedar Rapids, Ia.
 Rexarc, Inc., Sight Feed Generator Div., West Alexandria, O.
 Sanders, J. A., Fulton, N. Y.
 Smith Welding Equipment Corp., Minneapolis, Minn.
 Tinit Mfg. Co., Inc., Denver, Colo.
 Turner Corp., Sycamore, Ill.
 Unique Mfg. Co., Inc., Chicago, Ill.
 Weldit, Inc., Detroit, Mich.

TOWERS, COOLING, ATMOSPHERIC, RESIDENTIAL

Binks Mfg. Co., Chicago, Ill.
 Fluor Products Co., Div. of the Fluor Corp., Ltd., Air Conditioning & Refrigeration Cooling Tower Div., Santa Rosa, Calif.
 Higgins Metal Products Co., The, Swanton, O.
 Lillie-Hoffman Cooling Towers, Inc., St. Louis, Mo.
 Marley Co., The, Kansas City, Mo.
 Peerless Products Div., United Cooling Towers, Inc., North Little Rock, Ark.
 Phillips Cooling Tower Co., Inc., Brooklyn, N. Y.
 TOT Towers Co., Houston, Tex.
 Toungeate & Coats, Austin, Tex.

TOWERS, COOLING, MECHANICAL DRAFT, RESIDENTIAL

Acme Industries Inc., Jackson, Mich.
 Arizona Maintenance Co., Tucson, Ariz.
 Arkla Air Conditioning Corp., Little Rock, Ark.
 Baldwin-Ward Mfg. Co., Ottawa, Kans.
 Baltimore Aircoil Co., Inc., Baltimore, Md.
 Binks Mfg. Co., Chicago, Ill.
 Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.
 Deansteel Products, San Antonio, Tex.
 Drayer-Hanson, Div. of National-U. S. Radiator Corp., Los Angeles, Calif.
 Dunham-Bush, Inc., West Hartford, Conn.
 Embassy Steel Products, Inc., Brooklyn, N. Y.
 Fiske Co., Chicago, Ill.
 Fluor Products Co., Div. of the Fluor Corp., Ltd., Air Conditioning & Refrigeration Cooling Tower Div., Santa Rosa, Calif.
 Goodfellow Co., Inc., E. D., Memphis, Tenn.
 Governair Corp., Oklahoma City, Okla.
 Halstead & Mitchell, Pittsburgh, Pa.
 Havens Cooling Towers, Div. of Havens Structural Steel Co., Kansas City, Mo.
 Higgins Metal Products Co., The, Swanton, O.
 KVS Industries Inc., North Sacramento, Calif.
 Kauffman Air Conditioning Corp., St. Louis, Mo.
 Kennard Corp., St. Louis, Mo.
 Larkin Coils, Inc., Atlanta, Ga.
 Lillie-Hoffman Cooling Towers, Inc., St. Louis, Mo.
 Marley Co., The, Kansas City, Mo.
 Marlo Coil Co., St. Louis, Mo.
 Mason Products, Inc., Woburn, Mass.
 Morris Sheet Metal Works, Columbus, O.
 Niagara Products Co., Phoenix, Ariz.
 Peerless Products Div., United Cooling Towers, Inc., North Little Rock, Ark.
 Phillips Cooling Tower Co., Inc., Brooklyn, N. Y.
 TOT Towers Co., Houston, Tex.
 Tedco Cooling Towers Div., Engineering & Development Co., Inc., St. Louis, Mo.
 Toungeate & Coats, Austin, Tex. (reinforced glass fiber)
 Water Cooling Equipment Corp., St. Louis, Mo.
 Welbilt Air Conditioning and Heating Corp., Farmingdale, N. J.

TRANSFORMERS, BOOST AND BUCK (FOR VOLTAGE CONTROL)

Acme Electric Corp., Cuba, N. Y.
 Ballastran Div., Telex Inc., Ft. Wayne, Ind.
 Dongan Electric Mfg. Co., Detroit, Mich.
 Jefferson Electric Co., Bellwood, Ill.
 Westinghouse Electric Corp., Pittsburgh, Pa.

TRANSFORMERS, IGNITION

Burn-Rite Products Co., Yonkers, N. Y.

Dongan Electric Mfg. Co., Detroit, Mich.
 Dormeyer Industries, Chicago, Ill.
 General Controls Co., Glendale, Calif.
 General Electric Co., Apparatus Sales Offices, Schenectady, N. Y.
 Harvey, Inc., Sid, Valley Stream, N. Y.
 HomeEas Products Div. of Bogue Electric Mfg. Co., Paterson, N. J.
 Jefferson Electric Co., Bellwood, Ill.
 Service and Supply Co., Appleton, Wis.
 Super Electric Products Corp., Jersey City, N. J.
 Thermador Electrical Mfg. Co. Div. of Norris-Thermador Corp., Los Angeles, Calif.
 Thermolok Mfg. Co., Inc., Franklin Sq., L.I., N.Y.
 Union Electric & Mfg. Co., Jersey City, N. J.
 Webster Electric Co., Racine, Wis.

TRANSFORMERS, LOW VOLTAGE

Acme Electric Corp., Cuba, N. Y.
 Ballastran Div., Telex Inc., Ft. Wayne, Ind.
 Barber-Colman Co., Rockford, Ill.
 Controls Div. of American-Standard, Detroit, Mich.
 Crown Controls Co., Inc., New Bremen, Ohio.
 Dongan Electric Mfg. Co., Detroit, Mich.
 Dormeyer Industries, Chicago, Ill.
 Eisler Engineering Co., Newark, N. J.
 General Controls Co., Glendale, Calif.
 General Electric Co., Apparatus Sales Offices, Schenectady, N.Y.
 Jefferson Electric Co., Bellwood, Ill.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 NuTone, Inc., Cincinnati, O.
 Robertshaw-Fulton Controls Co., Richmond, Va.
 Taylor-Winfield Corp., Warren, Ohio.
 Thermador Electrical Mfg. Co. Div. of Norris-Thermador Corp., Los Angeles, Calif.
 Union Electric & Mfg. Co., Jersey City, N. J.
 Wagner Electric Corp., St. Louis, Mo.
 Westinghouse Electric Corp., Pittsburgh, Pa.

TRANSMISSIONS, VARIABLE SPEED

Allis-Chalmers Mfg. Co., Milwaukee, Wis.
 American Pulley Co., Philadelphia, Pa.
 American-Standard Industrial Div., Detroit, Mich.
 Dodge Mfg. Corp., Mishawaka, Ind.
 Lewellen Mfg. Co., Columbus, Ind.
 Lima Electric Motor Co., Inc., Lima, O.
 Link-Belt Co., Chicago, Ill.
 Lovejoy Flexible Coupling Co., Chicago, Ill.
 Patlyn Gears & Transmissions Corp., Chicago, Ill.
 Philadelphia Gear Corp., King of Prussia, Pa.
 Reliance Electric & Engineering Co., Cleveland, O.
 Sterling Electric Motors, Inc., Los Angeles, Calif.
 U. S. Electrical Motors, Inc., Los Angeles, Calif.

TRIM, ORNAMENTAL

See Molding and Trim, Ornamental

TRUCK BODIES

See Bodies and Accessories, Truck

TRUCKS, MOTOR

Chevrolet Motor Div., General Motors Corp., Detroit, Mich.
 Dodge Div., Chrysler Corp., Detroit, Mich.
 Ford Div., Ford Motor Co., Dearborn, Mich.
 GMC Truck & Coach Div., General Motors Corp., Pontiac, Mich.
 International Harvester Co., Motor Truck Div., Chicago, Ill.
 White Motor Co., Cleveland, O.

TRUCKS, WAREHOUSE

American Pulley Co., Philadelphia, Pa.
 Big Joe Mfg. Co., Wisconsin Dells, Wis.
 Elwell-Parker Electric Co., Cleveland, O.
 Yale & Towne Mfg. Co., The, Philadelphia, Pa.

TUBES, GAS LIGHTER

See Controls, Pilot, Gas Burner

TUBING, ALUMINUM

Aluminum Co. of America, Pittsburgh, Pa.
Anaconda Aluminum Co., The, Louisville, Ky.
Anaconda American Brass Co., Waterbury, Conn.
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Harvey Aluminum, Torrence, Calif.
Kaiser Aluminum & Chemical Sales, Inc., Oakland, Calif.
Olin Mathieson Chemical Corp., New York, N. Y.
Penn Brass & Copper Co., Erie, Pa.
Revere Copper & Brass Inc., New York, N. Y.
Reynolds Metals Co., Richmond, Va.
United Wire & Supply Corp., Providence, R. I.
Wolverine Tube Div. of Calumet & Hecla, Inc., Allen Park, Mich.

TUBING, CAPILLARY, FOR REFRIGERANTS

Allin Mfg. Co., Chicago, Ill.
Anaconda American Brass Co., Waterbury, Conn.
Kensico Tube Co. Div., Robinson Technical Products, Inc.,
Mt. Kisco, N. Y.
Madden Brass Products, Aurora, Ill.
Wabash Corp., Chicago, Ill.
Wolverine Tube Co., Div. of Calumet & Hecla, Inc., Allen
Park, Mich.

TUBING, COPPER

Anaconda American Brass Co., Waterbury, Conn.
Brass & Copper Tube Div., Triangle Conduit & Cable Co., Inc.,
New Brunswick, N. J.
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Hussey & Co., C. G., Pittsburgh, Pa.
Kensico Tube Co. Div., Robinson Technical Products, Inc.,
Mt. Kisco, N. Y.
Lewin-Mathes Co., Div. of Cerro de Pasco Corp., St. Louis, Mo.
Mueller Brass Co., Port Huron, Mich.
National Copper & Smelting Co., Cleveland, O.
Penn Brass & Copper Co., Erie, Pa.
Phelps Dodge Copper Products Corp., New York, N. Y.
Revere Copper & Brass Inc., New York, N.Y. (Also expanded
channels for heat exchange surfaces)
Scovill Mfg. Co., Waterbury, Conn.
United Wire & Supply Corp., Providence, R. I.
Wolverine Tube Div. of Calumet & Hecla, Inc., Allen Park, Mich.

TUBING, FITTINGS AND VALVES, PLASTIC

American Hard Rubber Co., Butler, N. J.
Aqua-Therm, Inc., Dayton, O.
Argo Plastic Products, Cleveland, O.
Atlas Mineral Products Co., Mertztown, Pa.
Brass & Copper Tube Div., Triangle Conduit & Cable Co., Inc.,
New Brunswick, N. J.
Carlton Products, Aurora, O.
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Colonial Plastics Mfg. Co., Subsidiary Van Dorn Iron Works Co.,
Cleveland, O.
Commercial Plastics Co., Chicago, Ill.
Franklin Plastics, Inc., Franklin, Pa.
Haveg Corp., Wilmington, Del.
Imperial Brass Mfg. Co., Chicago, Ill.
Industrial Plastic Fabricators, Inc., Norwood, Mass.
Irvington Div., Minnesota Mining & Mfg. Co., Freehold, N. J.
Laminated Sheet Products Corp., Norwood, Mass.
Lasco Industries, Montebello, Calif.
Luzerne Rubber Co., Trenton, N. J.
Mannesmann-Easton Plastic Products Co., Inc., Easton, Pa.
Mills Corp., Elmer E., Chicago, Ill.
Pacific States Felt & Mfg. Co., Inc., San Francisco, Calif.
Plastex Co., Columbus, O.
Polymer Corp., Reading, Pa.
Quick Plastics, Div. of Quick Industries, Inc., Jackson, Mich.
Republic Steel Corp., Cleveland, O.
Saran Lined Pipe Co., Ferndale, Mich.
Sloane Mfg. Co., Sun Valley, Calif.
Southwest Plastic Pipe Co., Mineral Wells, Tex.
Steel & Tubes Div., Republic Steel Corp., Cleveland, O.
United States Rubber Co., New York, N. Y.

Victaulic Co. of America, Elizabeth, N. J.
Weatherhead Co., Ft. Wayne Div., Ft. Wayne, Ind.
Yardley Plastics Co., Columbus, O.
Youngstown Sheet & Tube Co., Youngstown, O.

TUBING, NICKEL AND NICKEL ALLOY

Crucible Steel Co. of America, Pittsburgh, Pa.
Damascus Tube Co., Greenville, Pa.
International Nickel Co., Inc., New York, N. Y.
Revere Copper & Brass Inc., New York, N. Y.
Wall Tube and Metal Products Co., Newport, Tenn.
Youngstown Welding & Engineering Co., Youngstown, O.
(Monel)

TUBING, STEEL

Armco Steel Corp., Middletown, Ohio.
Bethlehem Steel Co., Bethlehem, Pa.
Bundy Tubing Co., Detroit, Mich.
Crucible Steel Co. of America, Pittsburgh, Pa.
Damascus Tube Co., Greenville, Pa.
H-P Products, Inc., Louisville, O.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Laclede Steel Co., St. Louis, Mo.
Pittsburgh Steel Co., Pittsburgh, Pa.
Republic Steel Corp., Cleveland, Ohio.
Revere Copper & Brass, Inc., New York, N. Y. (Welded)
Sharon Steel Corp., Sharon, Pa.
Steel & Tubes Div., Republic Steel Corp., Cleveland, Ohio.
Timken Roller Bearing Co., Canton, Ohio.
Wall Tube and Metal Products Co., Newport, Tenn.
Youngstown Sheet & Tube Co., Youngstown, Ohio.

TUBING, STEEL, STAINLESS

Allegheny-Ludlum Steel Corp., Pittsburgh, Pa.
Carpenter Steel Co., Alloy Tube Div., Union, N. J.
Chase Brass & Copper Co., Inc., Waterbury, Conn.
Crucible Steel Co. of America, Pittsburgh, Pa.
Damascus Tube Co., Greenville, Pa.
Flexonics Corp., Maywood, Ill.
Republic Steel Corp., Cleveland, Ohio.
Steel & Tubes Div., Republic Steel Corp., Cleveland, Ohio.
Timken Roller Bearing Co., Canton, Ohio.
Wiegand Co., Edwin L., Pittsburgh, Pa.
Youngstown Welding & Engineering Co., Youngstown, O.

TURNING VANES

See Vanes, Duct Turning

UNITARY AIR CONDITIONERS, SUMMER, COIL WITH BLOWER FOR SPLIT SYSTEM

Consisting of Coil, Blower, Sheet Metal Housing and Connections
for Remote Condensing Unit or Cold Water Supply

Albion Div., McGraw-Edison Co., Albion, Mich.
Amana Refrigeration, Inc., Amana, Ia.
American-Standard Air Conditioning Div., New York, N. Y.
Barkow Mfg. Co., Inc., Aug. G., Milwaukee, Wis.
Bohn Aluminum and Brass Corp., Danville Div., Danville, Ill.
Bonair Div., Peerless Products Co., Philadelphia, Pa.
Brown Products Corp., Union, N. J.
Burnham Corp., Warm Air and Cooling Div., Belle Vernon, Pa.
Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse,
N. Y.
Century Engineering Corp., Cedar Rapids, Ia.
Coleman Co., Inc., Wichita, Kans.
Consumer Products, Motor Wheel Corp., Lansing, Mich.
Fraser & Johnston Co., San Francisco, Calif.
General Electric Co., Air Conditioning Dept., Tyler, Tex.
Halstead & Mitchell, Pittsburgh, Pa.
Hastings Air Control, Inc., Omaha, Nebr.
Heat Controller, Inc., Jackson, Mich.
Heil-Quaker Corp., Nashville, Tenn.
Henry Furnace Co., Medina, O.
Hi-Press Air Conditioning of America, New York, N. Y.
International Metal Products Div., McGraw-Edison Co.,
Phoenix, Ariz.
Jet-Heat, Inc., Englewood, N. J.
Lennox Industries Inc., Marshalltown, Iowa

Lincoln Air Control Products, Inc., Swarthmore, Pa.
 Magic Aire Div., United Electric Co., Wichita Falls, Tex.
 Marlo Coil Co., St. Louis, Mo.
 Miami Products Div. of Crane Co., Miami, Okla.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Mueller Climatrol, Milwaukee, Wis.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Penn Boiler Div., Pebbco Industries Inc., Lancaster, Pa.
 Recold Corp., Los Angeles, Calif.
 Rheem Mfg. Co., Chicago, Ill.
 Roberts-Gordon Appliance Co., Buffalo, N. Y.
 Rybolt Heater Co., Ashland, O.
 Southwest Mfg. Co., Aurora, Mo.
 Texas Products Mfg. Co., Waco, Tex.
 Thermo-Products, Inc., North Judson, Ind.
 Toridheet Div., Cleveland Steel Products Corp., Cleveland, O.
 Trane Co., La Crosse, Wis.
 Viking Mfg. Corp., Cleveland, O.
 Welbilt Air Conditioning and Heating Corp., Farmingdale, N. J.
 Williamson Co., The, Cincinnati, O.
 Wright-Temp Mfg. Co., Phoenix, Ariz.

UNITARY AIR CONDITIONERS, SUMMER, COIL WITHOUT BLOWER FOR SPLIT SYSTEM

Consisting of Coil, Sheet Metal Housing and Connections for Remote Condensing Unit or Cold Water Supply

Addison Products Co., Addison, Mich.
 Air Conditioning Engineering Co., Cambridge, Mass.
 Air Products, St. Louis, Mo.
 Airtemp Div., Chrysler Corp., Dayton, O.
 Albion Div., McGraw-Edison Co., Albion, Mich.
 Amana Refrigeration, Inc., Amana, Ia.
 American Furnace Co., St. Louis, Mo.
 American-Standard Air Conditioning Div., New York, N. Y.
 Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, O.
 Bar-Brook Mfg. Co., Inc., Shreveport, La.
 Bard Mfg. Co., Bryant, O.
 Barkow Mfg. Co., Inc., Aug. G., Milwaukee, Wis.
 Bohn Aluminum and Brass Corp., Danville, Ill.
 Bonair Div., Peerless Products Co., Philadelphia, Pa.
 Brown Products Corp., Union, N. J.
 Bryant Mfg. Co., Indianapolis, Ind.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Century Engineering Corp., Cedar Rapids, Iowa
 Chattanooga Royal Co., Chattanooga, Tenn.
 Chicago Steel Furnace Co., Elk Grove, Ill.
 Cobell Industries, Inc., Cleburne, Tex.
 Coleman Co., Inc., Wichita, Kans.
 Columbia Burner Co., Toledo, O.
 Consumer Products, Motor Wheel Corp., Lansing, Mich.
 Cool-Ette, Inc., Detroit, Mich.
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.
 Deansteel Products, San Antonio, Texas
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Dornback Furnace & Foundry Co., Eastlake, O.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Drayer-Hanson Div. of National-U.S. Radiator Corp., Los Angeles, Calif.
 Dunham-Bush, Inc., West Hartford, Conn.
 Fedders Corp., Maspeth, N. Y.
 Forston Co., Houston, Tex.
 Fraser & Johnston Co., San Francisco, Calif.
 Frigid Coil, Inc., El Monte, Calif.
 Gaffers & Sattler, Los Angeles, Calif.
 General Electric Co., Air Conditioning Dept., Tyler, Tex.
 Global Air Conditioning Corp., San Francisco, Calif.
 Governair Corp., Oklahoma City, Okla.
 Green Colonial, Inc., Des Moines, Ia.
 Grove Furnace, Inc., Garden Grove, Calif.
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Halstead & Mitchell, Pittsburgh, Pa.
 Hastings Air Conditioning Co., Inc., Hastings, Nebr.
 Hastings Air Control, Inc., Omaha, Nebr.
 Heat Controller, Inc., Jackson, Mich.
 Heil-Quaker Corp., Nashville, Tenn.
 Henry Furnace Co., Medina, O.
 Holly-General Co., Pasadena, Calif.

International Heater Co., Utica, N. Y.
 International Metal Products Div., McGraw-Edison Co., Phoenix, Ariz.
 Iron Fireman Mfg. Co., Cleveland, O.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Johnson Furnace Co., The, Cleveland, O.
 Kennard Corp., St. Louis, Mo.
 Kool Engineering Corp., Chicago, Ill.
 Larkin Coils, Inc., Atlanta, Ga.
 Laurel Products, Inc., Laurel, Miss.
 Lennox Industries Inc., Marshalltown, Ia.
 Lincoln Air Control Products, Inc., Swarthmore, Pa.
 Magic Aire Div., United Electric Co., Wichita Falls, Tex.
 Marlo Coil Co., St. Louis, Mo.
 Mathes Co., Div. of Glen Alden Corp., Marble Falls, Tex.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 McQuay, Inc., Minneapolis, Minn.
 Meyer Furnace Co., Peroia, Ill.
 Montag Inc., Portland, Ore.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Mueller Climatrol, Milwaukee, Wis.
 Muncie Gear Works, Cordele, Ga.
 National Thermatic Corp., Houston, Tex.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 North Coast Mfg. Corp., Portland, Ore.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Oneida Heater Co., Inc., Oneida, N. Y.
 Patten Co., J. V., Sycamore, Ill.
 Payne Co., The, La Puente, Calif.
 Peerless Corp., Indianapolis, Ind.
 Penn Boiler Div., Pebbco Industries Inc., Lancaster, Pa.
 Perfection Div., Hupp Corp., Cleveland, O.
 RCA-Whirlpool, Central Home Air Conditioning Div., Whirlpool Corp., St. Joseph, Mich.
 Recold Corp., Los Angeles, Calif.
 Refrigeration Appliances, Inc., Chicago, Ill.
 Rheem Mfg. Co., Chicago, Ill.
 Roberts-Gordon Appliance Co., Buffalo, N. Y.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, O.
 Silent Automatic Products, Cleveland, O.
 Southwest Mfg. Co., Aurora, Mo.
 Temperature Control, Inc., Atlanta, Ga.
 Texas Products Mfg. Co., Waco, Tex.
 Therm-Air Mfg. Co., Peekskill, N. Y.
 Thermo-Products, Inc., North Judson, Ind.
 Toridheet Div., Cleveland Steel Products Corp., Cleveland, O.
 Trane Co., The, La Crosse, Wis.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 U. S. Air Conditioning Corp., Delaware, O.
 Vendorlator Mfg. Co., Fresno, Calif.
 Viking Mfg. Corp., Cleveland, O.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Welbilt Air Conditioning and Heating Corp., Farmingdale, N. J.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, O.
 Wright-Temp Mfg. Co., Phoenix, Ariz.
 XXth Century Heating & Ventilating Co., Akron, O.
 York Div. of Borg-Warner Corp., York, Pa.
 Young Radiator Co., Racine, Wis.
 Zink Co., John, Tulsa, Okla.

UNITARY AIR CONDITIONERS, SUMMER, CONDENSING UNIT FOR SPLIT SYSTEM

Consisting of Compressor-Condenser, Motor, Receiver, Base and Housing (Capacities up to 180,000 Btu/h only)

Addison Products Co., Addison, Mich.
 Aimco Products Corp., Inc., Subsidiary of Yuba Consolidated Industries, Inc., Tulsa, Okla.
 Airtemp Div., Chrysler Corp., Dayton, O.
 Albion Div., McGraw-Edison Co., Albion, Mich.
 Amana Refrigeration, Inc., Amana, Ia.
 American-Standard Air Conditioning Div., New York, N. Y.
 Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind.
 Arizona Maintenance Co., Tucson, Ariz.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, O.
 Bar-Brook Mfg. Co., Inc., Shreveport, La.
 Barkow Mfg. Co., Inc., Aug. G., Milwaukee, Wis.
 Bendix-Westinghouse Automotive Air Brake Co., Evansville, Ind.
 Blissfield Mfg. Co., Blissfield, Mich.

Bonair Div., Peerless Products Co., Philadelphia, Pa.
 Brown Products Corp., Union, N. J.
 Brucker, Inc., M., Chicago, Ill.
 Bryant Mfg. Co., Indianapolis, Ind.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Chattanooga Royal Co., Chattanooga, Tenn.
 Chicago Steel Furnace Co., Elk Grove, Ill.
 Circle Equipment Co., Indianapolis, Ind.
 Cobell Industries, Inc., Cleburne, Tex.
 Coleman Co., Inc., Wichita, Kans.
 Columbia Burner Co., Toledo, O.
 Consumer Products, Motor Wheel Corp., Lansing, Mich.
 Cool-Ette, Inc., Detroit, Mich.
 Copeland Refrigeration Corp., Sidney, O.
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.
 Day & Night Mfg. Co., La Puente, Calif.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Dicelcer Div., General Machine & Mfg. Co., Berwick, Pa.
 Dornback Furnace & Foundry Co., Eastlake, O.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Dunham-Bush, Inc., West Hartford, Conn.
 Fedders Corp., Maspeth, N. Y.
 Felter Co., John, Houston, Tex.
 Fraser & Johnston Co., San Francisco, Calif.
 Frick Co., Waynesboro, Pa.
 Gaffers & Sattler, Los Angeles, Calif.
 Gas-Cool Div., Vector Engineering Contractors, Inc., Dallas, Tex. (Natural and LP gas engine driven equipment)
 General Electric Co., Air Conditioning Dept., Tyler, Texas
 Global Air Conditioning Corp., San Francisco, Calif.
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Heat Controller, Inc., Jackson, Mich.
 Heil-Quaker Corp., Nashville, Tenn.
 Henry Furnace Co., Medina, O.
 Holly-General Co., Pasadena, Calif.
 International Heater Co., Utica, N. Y.
 International Metal Products Div., McGraw-Edison Co., Phoenix, Ariz.
 Iron Fireman Mfg. Co., Cleveland, O.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Johnson Furnace Co., The, Cleveland, O.
 Kool Engineering Corp., Chicago, Ill.
 Laurel Products, Inc., Laurel, Miss.
 Lehigh Mfg. Co., Div. of Lehigh, Inc., Easton, Pa.
 Lennox Industries Inc., Marshalltown, Ia.
 Lincoln Air Control Products, Inc., Swarthmore, Pa.
 Majestic Co., Inc., Huntington, Ind.
 McMillan Comfortaire Heat Pumps, Inc., Jacksonville, Fla.
 Meyer Furnace Co., Peoria, Ill.
 Miami Products Div. of Crane Co., Miami, Okla.
 Montag Inc., Portland, Ore.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Mueller Climatrol, Milwaukee, Wis.
 Muncie Gear Works, Cordele, Ga.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 North Coast Mfg. Corp., Portland, Ore.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Patten Co., J. V., Sycamore, Ill.
 Payne Co., The, La Puente, Calif.
 Peerless Corp., Indianapolis, Ind.
 Penn Boiler Div., Pebbco Industries Inc., Lancaster, Pa.
 Perfection Div., Hupp Corp., Cleveland, O.
 RCA-Whirlpool, Central Home Air Conditioning Div., Whirlpool Corp., St. Joseph, Mich.
 Reliance Refrigerating Machine Co., Chicago, Ill.
 Rheem Mfg. Co., Chicago, Ill.
 Roberts-Gordon Appliance Co., Buffalo, N. Y.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, O.
 Sequoia Mfg. Co., San Carlos, Calif.
 Silent Automatic Products, Cleveland, O.
 Smith, Inc., E. B., St. Petersburg, Fla.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Lebanon, Ind.
 Tecumseh Products Co., Tecumseh, Mich.
 Temco, Inc., Nashville, Tenn.
 Temperature Control, Inc., Atlanta, Ga.
 Texas Products Mfg. Co., Waco, Tex.
 Thatcher Furnace Co., Garwood, N. J.
 Therm-Air Mfg. Co., Peekskill, N. Y.
 Thermo-Products, Inc., North Judson, Ind.
 Toridheet Div., Cleveland Steel Products Corp., Cleveland, O.

Trane Co., The, La Crosse, Wis.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 U. S. Air Conditioning Corp., Delaware, O.
 Vendorlator Mfg. Co., Fresno, Calif.
 Viking Mfg. Corp., Cleveland, O.
 W-M Mfg. Co., Chicago, Ill.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Webster & Co., Warren, Camden, N. J.
 Welbilt Air Conditioning and Heating Corp., Farmingdale, N. J.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, O.
 Worthington Corp., Harrison, N. J.
 Wright-Temp Mfg. Co., Phoenix, Ariz.
 XXth Century Heating & Ventilating Co., Akron, O.
 York Div. of Borg-Warner Corp., York, Pa.
 Zink Co., John, Tulsa, Okla.

UNITARY AIR CONDITIONERS, SUMMER, REFRIGERATION CHASSIS

Consisting of Cooling Coil, Compressor-Condenser Unit and Filter, for Duct Distribution of Air

Addison Products Co., Addison, Mich.
 Air Conditioning Engineering Co., Cambridge, Mass.
 Airtemp Div., Chrysler Corp., Dayton, O.
 Albion Div., McGraw-Edison Co., Albion, Mich.
 Amana Refrigeration, Inc., Amana, Ia.
 American Furnace Co., St. Louis, Mo.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, O.
 Auburn Burner Co., Edgerton, O.
 Bal-Air Inc., Nashville, Tenn.
 Bard Mfg. Co., Bryant, O.
 Barkow Mfg. Co., Inc., Aug. G., Milwaukee, Wis.
 Besser Furnace and Air Conditioning Corp., Charlotte, N. C.
 Blissfield Mfg. Co., Blissfield, Mich.
 Brown Products Corp., Union, N. J.
 Bryant Mfg. Co., Indianapolis, Ind.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Century Engineering Corp., Cedar Rapids, Ia.
 Chicago Steel Furnace Co., Elk Grove, Ill.
 Coleman Co., Inc., Wichita, Kans.
 Columbia Specialty Co., Inc., Chevy Chase, Md.
 Cool-Ette, Inc., Detroit, Mich.
 Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.
 Day & Night Mfg. Co., La Puente, Calif.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Fedders Corp., Maspeth, N. Y.
 Forston Co., Houston, Tex.
 Global Air Conditioning Corp., San Francisco, Calif.
 Green Colonial Inc., Des Moines, Ia.
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Harvey-Hill, Inc., St. Louis, Mo.
 Hastings Air Control, Inc., Omaha, Nebr.
 Heil-Quaker Corp., Nashville, Tenn.
 Henry Furnace Co., Medina, O.
 International Heater Co., Utica, N. Y.
 Iron Fireman Mfg. Co., Cleveland, O.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Lennox Industries Inc., Marshalltown, Ia.
 Lincoln Furnace Co., Inc., Hawthorne, N. J.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 McDonald Mfg. Co., A. Y., Dubuque, Ia.
 Melchior, Armstrong, Dessau Co., Ridgefield, N. J.
 Meyer Furnace Co., Peoria, Ill.
 Mueller Climatrol, Milwaukee, Wis.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 Oneida Heater Co., Inc., Oneida, N. Y.
 Patten Co., J. V., Sycamore, Ill.
 Peerless Corp., Indianapolis, Ind.
 Perfection Div., Hupp Corp., Cleveland, O.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, O.
 Sequoia Mfg. Co., San Carlos, Calif.
 Temco, Inc., Nashville, Tenn.
 Trane Co., The, La Crosse, Wis.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 U. S. Air Conditioning Corp., Delaware, O.
 Viking Mfg. Corp., Cleveland, O.

Waterman-Waterbury Co., Minneapolis, Minn.
 Welbilt Air Conditioning and Heating Corp., Farmingdale,
 N. J.
 Williams Oil-O-Matic Heating Co., Div. of National Union Elec-
 tric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, O.
 York Div. of Borg-Warner Corp., York, Pa.

UNITARY AIR CONDITIONERS, SUMMER, REFRIGERATION CHASSIS

Consisting of Cooling Coil, Filter and Compressor with Con-
 nections to Remote Condenser, for Duct Distribution of Air

Barkow Mfg. Co., Inc., Aug. G., Milwaukee, Wis.
 Brown Products Corp., Union, N. J.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse,
 N. Y.
 Century Engineering Corp., Cedar Rapids, Iowa
 Rybolt Heater Co., Ashland, O.

UNITARY AIR CONDITIONERS, SUMMER, REMOTE CONDENSER TYPE, FLOOR CABINET

Consisting of Blower, Filter, Cooling Coil and Compressor with
 Connection to Remote Condenser, for Duct Distribution of Air

Barkow Mfg. Co., Inc., Aug. G., Milwaukee, Wis.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse,
 N. Y.

UNITARY AIR CONDITIONERS, SUMMER, REMOTE CONDENSER TYPE, HORIZONTAL CABINET

Consisting of Blower, Filter, Cooling Coil and Compressor with
 Connection to Remote Condenser, for Duct Distribution of Air

Armstrong Furnace Co., Div. of National Union Electric
 Corp., Columbus, O.
 Century Engineering Corp., Cedar Rapids, Iowa
 Rybolt Heater Co., Ashland, O.
 Williams Oil-O-Matic Heating Co., Div. of National Union
 Electric Corp., Columbus, O.

UNITARY AIR CONDITIONERS, SUMMER, SELF- CONTAINED, EVAPORATIVE COOLER

Consisting of Blower, Filter, Pump and Sprays or Mats (for
 cooling by evaporation)

Air Cooling Engineering Co., Evanston, Ill.
 Air & Refrigeration Corp., New York, N. Y.
 Alton Mfg. Co., Dallas, Tex.
 American Cooling Tower Co., Kansas City, Mo.
 Arizona Maintenance Co., Tucson, Ariz.
 Belmetals Mfg. Co., Inc., Belmont, Calif.
 Brown, Gene, San Antonio, Tex.
 Central States Mfg. Co., Inc., Arkansas City, Kans.
 Comfort Products Inc., Dallas, Tex.
 Dearborn Stove Co., Dallas, Tex.
 Essick Mfg. Co., Los Angeles, Calif.
 Farr Co., Los Angeles, Calif.
 Forseille Products, Inc., Baltimore, Md.
 Hayes Furnace & Mfg. & Supply Co., Los Angeles, Calif.
 Heating Assurance, Inc., Spokane, Wash.
 International Metal Products Div. McGraw-Edison Co.,
 Phoenix, Ariz.
 KVS Industries Inc., North Sacramento, Calif.
 Kleer-Kleen Mfg. Co., Hayward, Calif.
 Lennox Industries Inc., Marshalltown, Ia.
 Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif.
 Magic Aire Div., United Electric Co., Wichita Falls, Tex.
 Morey, Dan, Los Angeles, Calif.
 Mountain States Equipment Co., Denver, Colo.
 National Equipment Co., Denison, Tex.
 Southwest Mfg. Co., Aurora, Mo.
 Steam-O-Matic Corp., Sedalia, Mo.
 Thompson Mfg. Co., A. F., Tyler, Texas
 Westprest Inc., Amarillo, Tex.
 Winter Mfg. Co., Winter, Tex.
 Wright-Temp Mfg. Co., Phoenix, Ariz.

UNITARY AIR CONDITIONERS, SUMMER, SELF- CONTAINED, FLOOR CABINET

Consisting of Blower, Cooling Coil, Compressor-Condenser Unit
 and Filter, for Duct Distribution of Air

Air Conditioning Engineering Co., Cambridge, Mass.
 Airflex Corp., Champaign, Ill.
 Air Products, St. Louis, Mo.
 Airtemp Div., Chrysler Corp., Dayton, O.
 Airtron Corp., Div. of The Higgins Metal Products Co.,
 Swanton, O.
 Albion Div., McGraw-Edison Co., Albion, Mich.
 American Furnace Co., St. Louis, Mo.
 Auburn Burner Co., Edgerton, O.
 Bal-Air, Inc., Nashville, Tenn.
 Bard Mfg. Co., Bryant, O.
 Barkow Mfg. Co., Inc., Aug. G., Milwaukee, Wis.
 Besser Furnace and Air Conditioning Corp., Charlotte, N. C.
 Blissfield Mfg. Co., Blissfield, Mich.
 Bonair Div., Peerless Products Co., Philadelphia, Pa.
 Brown Products Corp., Union, N. J.
 Burnham Corp., Irvington, N. Y.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse,
 N. Y.
 Central States Mfg. Co., Inc., Arkansas City, Kans.
 Chattanooga Royal Co., Chattanooga, Tenn.
 Chicago Steel Furnace Co., Elk Grove, Ill.
 Columbia Specialty Co., Inc., Chevy Chase, Md.
 Cond-Air Div., Elliott Engineering Co., Lynwood, Calif.
 Consumer Products, Motor Wheel Corp., Lansing, Mich.
 Cool-Ette, Inc., Detroit, Mich.
 Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.
 Day & Night Mfg. Co., La Puente, Calif.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Fedders Corp., Maspeth, N. Y.
 Forston Co., Houston, Tex.
 Fraser & Johnston Co., San Francisco, Calif.
 Gaffers & Sattler, Los Angeles, Calif.
 General Air Conditioning Corp., Los Angeles, Calif.
 Global Air Conditioning Corp., San Francisco, Calif.
 Governair Corp., Oklahoma City, Okla.
 Great Northern Mfg. Corp., Chicago, Ill.
 Green Colonial Inc., Des Moines, Ia.
 Grove Furnace, Inc., Garden Grove, Calif.
 Hall-Neal Furnace Co., Indianapolis, Ind.
 Harvey-Hill, Inc., St. Louis, Mo.
 Hastings Air Conditioning Co., Inc., Hastings, Nebr.
 Hastings Air Control, Inc., Omaha, Nebr.
 Heat Controller, Inc., Jackson, Mich.
 Heil-Quaker Corp., Nashville, Tenn.
 Henry Furnace Co., Medina, O.
 International Heater Co., Utica, N. Y.
 Janitrol Heating and Air Conditioning Div., Midland-Ross
 Corp., Columbus, O.
 Keith Furnace Co., Des Moines, Ia.
 Laurel Products, Inc., Laurel, Miss.
 Lennox Industries Inc., Marshalltown, Ia.
 Lincoln Air Control Products, Inc., Swarthmore, Pa.
 Lincoln Furnace Co., Inc., Hawthorne, N. J.
 Made-Rite Co., Inc., Newport, Ky.
 Majestic Co., Inc., Huntington, Ind.
 Mathes Co., Div. of Glen Alden Corp., Marble Falls, Tex.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 Meyer Furnace Co., Peoria, Ill.
 Midwest Automatic Control Co., Des Moines, Ia.
 Mueller Climatrol, Milwaukee, Wis.
 Muncie Gear Works, Cordele, Ga.
 Nat Corp., The, Kansas City, Mo.
 National Thermatic Corp., Houston, Tex.
 Niagara Furnace Div., Forest City Foundries Co., Cleveland, O.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Oneida Heater Co., Inc., Oneida, N. Y.
 Patten Co., J. V., Sycamore, Ill.
 Payne Co., The, La Puente, Calif.
 Peerless Corp., Indianapolis, Ind.
 RCA-Whirlpool, Central Home Air Conditioning Div., Whirl-
 pool Corp., St. Joseph, Mich.
 Roberts-Gordon Appliance Co., Buffalo, N. Y.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, O.
 Smith, Inc., E. B., St. Petersburg, Fla.
 Temco, Inc., Nashville, Tenn.
 Thatcher Furnace Co., Garwood, N. J.

Therm-Air Mfg. Co., Peekskill, N. Y.
 Toridheet Div., Cleveland Steel Products Corp., Cleveland, O.
 Trane Co., The, LaCrosse, Wis.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 U. S. Air Conditioning Corp., Delaware, O.
 Viking Mfg. Corp., Cleveland, O.
 W-M Mfg. Co., Chicago, Ill.
 Welbilt Air Conditioning and Heating Corp., Farmingdale, N. J.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Whitehall Engineering Co., Chicago, Ill.
 Wright-Temp Mfg. Co., Phoenix, Ariz.
 York Div. of Borg-Warner Corp., York, Pa.

UNITARY AIR CONDITIONERS, SUMMER, SELF-CONTAINED, HORIZONTAL CABINET

Consisting of Blower, Cooling Coil, Compressor-Condenser Unit and Filter, for Duct Distribution of Air

Addison Products Co., Addison, Mich.
 Airtemp Div., Chrysler Corp., Dayton, O.
 Airtron Corp., Div. of The Higgins Metal Products Co., Swanton, O.
 Albion Div., McGraw-Edison Co., Albion, Mich.
 Amana Refrigeration, Inc., Amana, Ia.
 American Furnace Co., St. Louis, Mo.
 American-Standard Air Conditioning Div., New York, N. Y.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, O.
 Barkow Mfg. Co., Inc., Aug. G., Milwaukee, Wis.
 Bryant Mfg. Co., Indianapolis, Ind.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Century Engineering Corp., Cedar Rapids, Ia.
 Coleman Co., Inc., Wichita, Kans.
 Cool-Ette, Inc., Detroit, Mich.
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Day & Night Mfg. Co., La Puente, Calif.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Fedders Corp., Maspeth, N. Y.
 Gaffers & Sattler, Los Angeles, Calif.
 General Electric Co., Air Conditioning Dept., Tyler, Tex.
 Great Northern Mfg. Corp., Chicago, Ill.
 Harvey-Hill, Inc., St. Louis, Mo.
 Hastings Air Control, Inc., Omaha, Nebr.
 Heat Controller, Inc., Jackson, Mich.
 Heil-Quaker Corp., Nashville, Tenn.
 Henry Furnace Co., Medina, O.
 International Heater Co., Utica, N. Y.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Laurel Products, Inc., Laurel, Miss.
 Lennox Industries Inc., Marshalltown, Ia.
 Mathes Co., Div. of Glen Alden Corp., Marble Falls, Tex.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 McQuay, Inc., Minneapolis, Minn.
 Meyer Furnace Co., Peoria, Ill.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Mueller Climatrol, Milwaukee, Wis.
 Muncie Gear Works, Cordele, Ga.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Patten Co., J. V., Sycamore, Ill.
 Payne Co., The, La Puente, Calif.
 Peerless Corp., Indianapolis, Ind.
 Penn Boiler Div., Peppco Industries Inc., Lancaster, Pa.
 Perfection Div., Hupp Corp., Cleveland, O.
 RCA-Whirlpool, Central Home Air Conditioning Div., Whirlpool Corp., St. Joseph, Mich.
 Rheem Mfg. Co., Chicago, Ill.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, O.
 Sheet Metal Mfg. Co., Youngstown, O.
 Silent Automatic Products, Cleveland, O.
 Southwest Mfg. Co., Aurora, Mo.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 Viking Mfg. Corp., Cleveland, O.
 Welbilt Air Conditioning and Heating Corp., Farmingdale, N. J.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, O.

Wright-Temp Mfg. Co., Phoenix, Ariz.
 York Div. of Borg-Warner Corp., York, Pa.

UNITARY AIR CONDITIONERS, SUMMER, SELF-CONTAINED, ROOM TYPE, FLOOR CABINET

Consisting of Blower, Filter, Cooling Coil and Compressor-Condenser Unit

Bal-Air, Inc., Nashville, Tenn.
 Barkow Mfg. Co., Inc., Aug. G., Milwaukee, Wis.
 Burnham Corp., Irvington, N. Y.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Fedders Corp., Maspeth, N. Y.
 General Air Conditioning Corp., Los Angeles, Calif.
 Henry Furnace Co., Medina, O.
 Kauffman Air Conditioning Corp., St. Louis, Mo.
 Made-Rite Co., Inc., Newport, Ky.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Patten Co., J. V., Sycamore, Ill.
 Remington Air Conditioning Div., Remington Corp., Auburn, N. Y.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Siegler Corp., Centralia, Ill.
 Webster & Co., Warren, Camden, N. J.

UNITARY AIR CONDITIONERS, SUMMER, SELF-CONTAINED, STORE TYPE, FLOOR CABINET

Consisting of Blower, Filter, Cooling Coil and Compressor-Condenser Unit, with Air Discharge Approximately 6 ft Above Floor

Airtemp Div., Chrysler Corp., Dayton, O.
 Alton Mfg. Co., Dallas, Tex.
 American-Standard Air Conditioning Div., New York, N. Y.
 American-Standard Industrial Div., Detroit, Mich.
 Arizona Maintenance Co., Tucson, Ariz.
 Bard Mfg. Co., Bryant, O.
 Barkow Mfg. Co., Inc., Aug. G., Milwaukee, Wis.
 Besser Furnace and Air Conditioning Corp., Charlotte, N. C.
 Bonair Div., Peerless Products Co., Philadelphia, Pa.
 Brown Products Corp., Union, N. J.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Chicago Steel Furnace Co., Elk Grove, Ill.
 Cool-Ette, Inc., Detroit, Mich.
 Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.
 Dialatemp, Inc., St. Louis, Mo.
 Embassy Steel Products, Inc., Brooklyn, N. Y.
 Frick Co., Waynesboro, Pa.
 Governair Corp., Oklahoma City, Okla.
 Great Northern Mfg. Corp., Chicago, Ill.
 Green Colonial Inc., Des Moines, Ia.
 Haertel Co., Walter, Minneapolis, Minn.
 Harvey-Hill, Inc., St. Louis, Mo.
 Hastings Air Conditioning Co., Inc., Hastings, Nebr.
 Hastings Air Control, Inc., Omaha, Nebr.
 Heat Controller, Inc., Jackson, Mich.
 Henry Furnace Co., Medina, O.
 International Heater Co., Utica, N. Y.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Kauffman Air Conditioning Corp., St. Louis, Mo.
 Lennox Industries Inc., Marshalltown, Ia.
 Lincoln Air Control Products, Inc., Swarthmore, Pa.
 Majestic Co., Inc., Huntington, Ind.
 Meyer Furnace Co., Peoria, Ill.
 Midwest Automatic Control Co., Des Moines, Ia.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Patten Co., J. V., Sycamore, Ill.
 Peerless Corp., Indianapolis, Ind.
 Ralph Mfg. Co., Inc., Wadsworth, O.
 Rinehart, Inc., Richmond, Ind.
 Roberts-Gordon Appliance Co., Buffalo, N. Y.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, O.
 Thatcher Furnace Co., Garwood, N. J.
 Therm-Air Mfg. Co., Peekskill, N. Y.
 Trane Co., The, La Crosse, Wis.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.

U. S. Air Conditioning Corp., Delaware, O.
 Viking Mfg. Corp., Cleveland, O.
 Welbilt Air Conditioning and Heating Corp., Farmingdale,
 N. J.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Worthington Corp., Harrison, N. J.
 York Div. of Borg-Warner Corp., York, Pa.

UNITARY AIR CONDITIONERS, SUMMER, SELF-CONTAINED, STORE TYPE, SUSPENDED CABINET

Consisting of Blower, Filter, Cooling Coil and Compressor-Condenser Unit

Addison Products Co., Addison, Mich.
 Air Conditioning Engineering Co., Cambridge, Mass.
 Airtemp Div., Chrysler Corp., Dayton, O.
 Amana Refrigeration, Inc., Amana, Ia.
 Bal-Air, Inc., Nashville, Tenn.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Central States Mfg. Co., Inc., Arkansas City, Kans.
 Century Engineering Corp., Cedar Rapids, Iowa
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Fedders Corp., Maspeth, N. Y.
 Forston Co., Houston, Tex.
 General Air Conditioning Corp., Los Angeles, Calif.
 Green Colonial Inc., Des Moines, Ia.
 Hastings Air Control, Inc., Omaha, Nebr.
 International Heater Co., Utica, N. Y.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Lennox Industries Inc., Marshalltown, Ia.
 Melchior, Armstrong, Dessau Co., Ridgefield, N. J.
 Meyer Furnace Co., Peoria, Ill.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Patten Co., J. V., Sycamore, Ill.
 Payne Co., The, La Puente, Calif.
 Perfection Div., Hupp Corp., Cleveland, O.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, O.
 Silent Automatic Products, Cleveland, O.
 Thermo-Products, Inc., North Judson, Ind.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 Welbilt Air Conditioning and Heating Corp., Farmingdale, N. J.
 Williamson Co., The, Cincinnati, O.
 Wright-Temp Mfg. Co., Phoenix, Ariz.

UNITARY AIR CONDITIONERS, SUMMER, SELF-CONTAINED, THROUGH-WALL MOUNTED

Consisting of Blower, Filter, Cooling Coil and Compressor-Condenser Unit, for Duct Distribution of Air

Addison Products Co., Addison, Mich.
 Airflow Co., Rockville, Md. (For military applications)
 Airtemp Div., Chrysler Corp., Dayton, O.
 Amana Refrigeration, Inc., Amana, Ia.
 American Furnace Co., St. Louis, Mo.
 American-Standard Air Conditioning Div., New York, N. Y.
 Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, O.
 Bal-Air, Inc., Nashville, Tenn.
 Bonair Div., Peerless Products Co., Philadelphia, Pa.
 Brown Products Corp., Union, N. J.
 Bryant Mfg. Co., Indianapolis, Ind.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Chattanooga Royal Co., Chattanooga, Tenn.
 Cobell Industries, Inc., Cleburne, Tex.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Fedders Corp., Maspeth, N. Y.
 General Electric Co., Air Conditioning Dept., Tyler, Tex.
 Gibson Refrigerator Sales Corp., Sub. of Hupp Corp., Greenville, Mich.
 Global Air Conditioning Corp., San Francisco, Calif.
 Heat Controller, Inc., Jackson, Mich.
 Heil-Quaker Corp., Nashville, Tenn.
 International Heater Co., Utica, N. Y.

Iron Fireman Mfg. Co., Cleveland, O.
 Lennox Industries Inc., Marshalltown, Ia.
 Lincoln Air Control Products, Inc., Swarthmore, Pa.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 Morrison Steel Products, Inc., Buffalo, N. Y.
 Mueller Climatrol, Milwaukee, Wis.
 National Thermatic Corp., Houston, Tex.
 Patten Co., J. V., Sycamore, Ill.
 Perfection Div., Hupp Corp., Cleveland, O.
 RCA-Whirlpool, Central Home Air Conditioning Div., Whirlpool Corp., St. Joseph, Mich.
 Redmondson Corp., York, Pa.
 Rybolt Heater Co., Ashland, O.
 Silent Automatic Products, Cleveland, O.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 Webster & Co., Warren, Camden, N. J.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Williamson Co., The, Cincinnati, O.
 York Div. of Borg-Warner Corp., York, Pa.

UNITARY AIR CONDITIONERS, SUMMER, SELF-CONTAINED, WINDOW TYPE

Consisting of Blower, Filter, Cooling Coil and Compressor-Condenser Unit

Addison Products Co., Addison, Mich.
 Admiral Corp., Chicago, Ill.
 Airtemp Div., Chrysler Corp., Dayton, O.
 Albion Div., McGraw-Edison Co., Albion, Mich.
 Amana Refrigeration, Inc., Amana, Ia.
 Arizona Maintenance Co., Tucson, Ariz.
 Blissfield Mfg. Co., Blissfield, Mich.
 Burnham Corp., Irvington, N. Y.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.
 Emerson Electric Mfg. Co., St. Louis, Mo.
 Emerson Radio & Phonograph Corp., Jersey City, N. J.
 Fedders Corp., Maspeth, N. Y.
 Forston Co., Houston, Tex.
 General Appliance Corp., Greenville, Mich.
 General Electric Co., Room Air Conditioner Dept., Major Appliance Div., Louisville, Ky.
 Gibson Refrigerator Sales Corp., Sub. of Hupp Corp., Greenville, Mich.
 Great Northern Mfg. Corp., Chicago, Ill.
 Heat Controller, Inc., Jackson, Mich.
 Hotpoint, Div. General Electric Co., Chicago, Ill.
 I. W. Air Conditioning Corp., Bronx 59, New York
 Kauffman Air Conditioning Corp., St. Louis, Mo.
 Kelvinator Div., American Motors Corp., Detroit, Mich.
 King Refrigerator Co., Glendale, N. Y.
 Lewyt Air-Conditioner Corp., Long Island City, N. Y.
 Made-Rite Co., Inc., Newport, Ky.
 Mathes Co., Div. of Glen Alden Corp., Marble Falls, Tex.
 RCA-Whirlpool, Central Home Air Conditioning Div., Whirlpool Corp., St. Joseph, Mich.
 Remington Air Conditioning Div., Remington Corp., Auburn, N. Y.
 U. S. Air Conditioning Corp., Delaware, O.
 Viking Mfg. Corp., Cleveland, O.
 Vornado Inc., Garfield, N. J.
 Welbilt Corp., Maspeth, L.I. N. Y.
 Western Auto Supply Co., Kansas City, Mo.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Westinghouse Electric Corp., Major Appliance Div., Mansfield, O.
 Whitehall Engineering Co., Chicago, Ill.
 York Div. of Borg-Warner Corp., York, Pa.

UNITARY AIR CONDITIONERS, SUMMER, SPLIT SYSTEM, ROOM TYPE, FLOOR CABINET, WITH CONNECTIONS FOR REMOTE COMPRESSOR-CONDENSER UNIT OR COLD WATER SUPPLY

Consisting of Blower, Filter and Cooling Coil

Air Conditioning Engineering Co., Cambridge, Mass.
 Bal-Air, Inc., Nashville, Tenn.
 Bohn Aluminum & Brass Corp., Danville Div., Danville, Ill.
 Buffalo Forge Co., Buffalo, N. Y.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.

Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.
Drayer-Hanson Div. of National-U.S. Radiator Corp., Los Angeles, Calif.

Dunham-Bush, Inc., West Hartford, Conn.
Hastings Air Conditioning Co., Inc., Hastings, Nebr.
Henry Furnace Co., Medina, O.
International Mfg. Co., Oklahoma City, Okla.
Kritzer Radiant Coils, Inc., Batavia, Ill.
Marlo Coil Co., St. Louis, Mo.
McQuay, Inc., Minneapolis, Minn.
Modine Mfg. Co., Racine, Wis.
Olsen Mfg. Co., The C. A., Elyria, O.
Patten Co., J. V., Sycamore, Ill.
Refrigeration Appliances, Inc., Chicago, Ill.
Round Oak Div., Peerless Corp., Dowagiac, Mich.
Rybolt Heater Co., Ashland, O.
Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.

U. S. Air Conditioning Corp., Delaware, O.
Webster & Co., Warren, Camden, N. J.
Welbit Air Conditioning and Heating Corp., Farmingdale, N. J.
York Div. of Borg-Warner Corp., York, Pa.
Young Radiator Co., Racine, Wis.

UNITARY AIR CONDITIONERS, WINTER, SPLIT SYSTEM

Consisting of Blower, Filter, Humidifier, Heating Coil with Connections for Remote Steam or Hot Water Source, for Duct Distribution of Air

Air Conditioning Engineering Co., Cambridge, Mass.
Buffalo Forge Co., Buffalo, N. Y.
Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
Clarage Fan Co., Kalamazoo, Mich.
Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.
Drayer-Hanson Div. of National-U.S. Radiator Corp., Los Angeles, Calif.
Dunham-Bush, Inc., West Hartford, Conn.
Hastings Air Conditioning Co., Inc., Hastings, Nebr.
Johnson Co., S. T., Oakland, Calif.
Kennard Corp., St. Louis, Mo.
Marlo Coil Co., St. Louis, Mo.
Modine Mfg. Co., Racine, Wis.
Recold Corp., Los Angeles, Calif.
Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
U. S. Air Conditioning Corp., Delaware, O.
Welbilt Air Conditioning and Heating Corp., Farmingdale, N. J.
Western Blower Co., Seattle, Wash.
Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
Young Radiator Co., Racine, Wis.

UNITARY AIR CONDITIONERS, WINTER, SPLIT SYSTEM, ROOM TYPE, FLOOR CABINET

Consisting of Blower, Filter and Heating Coil for Connection to Remote Heat Source

Bohn Aluminum & Brass Corp., Danville Div., Danville, Ill.
Buffalo Forge Co., Buffalo, N. Y.
Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.
Dunham-Bush, Inc., West Hartford, Conn.
Kritzer Radiant Coils, Inc., Batavia, Ill.
Marlo Coil Co., St. Louis, Mo.
Remington Air Conditioning Div., Remington Corp., Auburn, N. Y. (Incremental system)
Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
U. S. Air Conditioning Corp., Delaware, O.
Webster & Co., Warren, Camden, N. J.
Young Radiator Co., Racine, Wis.

UNITARY AIR CONDITIONERS, YEAR 'ROUND, HEAT PUMP, OTHER THAN SELF-CONTAINED

Consisting of Blower, Filter, Humidifier, Heating and Cooling Coils, Reverse Refrigeration Cycle Switching Equipment, and Connections for Remote Compressor-Condenser Unit, for Duct Distribution of Air

Addison Products Co., Addison, Mich.
Albion Div., McGraw-Edison Co., Albion, Mich.
American Furnace Co., St. Louis, Mo.
American-Standard Air Conditioning Div., New York, N. Y.
Bard Mfg. Co., Bryant, O.
Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
Cobell Industries, Inc., Cleburne, Tex.
Coleman Co., Inc., Wichita, Kans.
Coolerator Div., McGraw-Edison Co., Albion, Mich.
Day & Night Mfg. Co., La Puente, Calif.
Delco Appliance Div., General Motors Corp., Rochester, N. Y.
Forston Co., Mfr., Houston, Tex.
Fraser & Johnston Co., San Francisco, Calif.
Friedrich Refrigerators, Inc., San Antonio, Tex.
General Electric Co., Air Conditioning Dept., Tyler, Tex.
Global Air Conditioning Corp., San Francisco, Calif.
Heat Controller, Inc., Jackson, Mich.
Heil-Quaker Corp., Nashville, Tenn.
International Heater Co., Utica, N. Y.
International Metal Products Div., McGraw-Edison Co., Phoenix, Ariz.
Laurel Products, Inc., Laurel, Miss.
Lennox Industries Inc., Marshalltown, Iowa
Mueller Climatrol, Milwaukee, Wis.
Muncie Gear Works, Cordele, Ga.
Perfection Div., Hupp Corp., Cleveland, O.
RCA-Whirlpool Central Home Air Conditioning Div., Whirlpool Corp., St. Joseph, Mich.
Revco, Inc., Deerfield, Mich.
Southwest Mfg. Co., Aurora, Mo.
Stewart-Warner Corp., Heating and Air Conditioning Div., Lebanon, Ind.
Tempromatic Corp., DeLand, Fla.
Typhoon Heat Pump Div., Hupp Corp., Tampa, Fla.
Weatherking of Florida, Orlando, Fla.
Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.

UNITARY AIR CONDITIONERS, YEAR 'ROUND, HEAT PUMP, SELF-CONTAINED

Consisting of Blower, Filter, Humidifier, Heating and Cooling Coils, Compressor-Condenser Unit and Reverse Refrigeration Cycle Switching Equipment, for Duct Distribution of Air

Addison Products Co., Addison, Mich.
Air Products, St. Louis, Mo.
Airtemp Div., Chrysler Corp., Dayton, O.
Amana Refrigeration, Inc., Amana, Ia.
American-Standard Air Conditioning Div., New York, N. Y.
Bard Mfg. Co., Bryant, O.
Brown Products Corp., Union, N. J.
Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
Climate-Master Products Inc., Fort Lauderdale, Fla.
Delco Appliance Div., General Motors Corp., Rochester, N. Y.
Emerson Electric Mfg. Co., St. Louis, Mo.
Fedders Corp., Maspeth, N. Y.
Forston Co., Houston, Tex.
Gaffers & Sattler, Los Angeles, Calif.
General Air Conditioning Corp., Los Angeles, Calif.
General Electric Co., Air Conditioning Dept., Tyler, Tex.
Global Air Conditioning Corp., San Francisco, Calif.
Grove Furnace, Inc., Garden Grove, Calif.
Heat Controller, Inc., Jackson, Mich.
Heil-Quaker Corp., Nashville, Tenn.
International Heater Co., Utica, N. Y.
Laurel Products, Inc., Laurel, Miss.
Lennox Industries Inc., Marshalltown, Ia.
Majestic Co., Inc., Huntington, Ind.
Mathes Co., Div. of Glen Alden Corp., Marble Falls, Tex.
McMillan Comfortaire Heat Pumps, Inc., Jacksonville, Fla.
Mueller Climatrol, Milwaukee, Wis.
Payne Co., The, La Puente, Calif.
Peerless Corp., Indianapolis, Ind.
Perfection Div., Hupp Corp., Cleveland, O.
Revco, Inc., Deerfield, Mich.
Round Oak Div., Peerless Corp., Dowagiac, Mich.

Trane Co., The, La Crosse, Wis.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 Typhoon Heat Pump Div., Hupp Corp., Tampa, Fla.
 Weatherking of Florida, Orlando, Fla.
 Welbilt Air Conditioning and Heating Corp., Farmingdale, N. J.
 Welbilt Corp., Maspeth, L.I., N. Y.
 Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.
 Wright-Temp Mfg. Co., Phoenix, Ariz.
 York Div. of Borg-Warner Corp., York, Pa.

UNITARY AIR CONDITIONERS, YEAR 'ROUND, REMOTE CONDENSER TYPE, FLOOR CABINET

Consisting of Blower, Filter, Humidifier, Direct-Fired Warm Air Furnace, Cooling Coil and Compressor with Connections to Remote Condenser, for Duct Distribution of Air

Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.

UNITARY AIR CONDITIONERS, YEAR 'ROUND, ROOM TYPE, FLOOR CABINET

Consisting of Blower, Filter, Humidifier and Heating and Cooling Coils for Connection to Steam or Hot Water Supply and Remote Compressor-Condenser Unit or Cold Water Supply

Air Conditioning Engineering Co., Cambridge, Mass.
 American Radiator & Standard Sanitary Corp., Plumbing and Heating Div., New York, N. Y.
 Bal-Air, Inc., Nashville, Tenn.
 Buffalo Forge Co., Buffalo, N. Y.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.
 Drayer-Hanson Div. of National-U.S. Radiator Corp., Los Angeles, Calif.
 Dunham-Bush, Inc., West Hartford, Conn.
 International Mfg. Co., Oklahoma City, Okla.
 Kritzer Radiant Coils, Inc., Batavia, Ill.
 Marlo Coil Co., St. Louis, Mo.
 McQuay, Inc., Minneapolis, Minn.
 Modine Mfg. Co., Racine, Wis.
 Penn Boiler Div., Peabco Industries Inc., Lancaster, Pa.
 Refrigeration Appliances, Inc., Chicago, Ill.
 Rittling Corp., Buffalo, N. Y.
 Trane Co., The, La Crosse, Wis.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 U. S. Air Conditioning Corp., Delaware, O.
 Webster & Co., Warren, Camden, N. J.
 Whitehall Engineering Co., Chicago, Ill.
 York Div. of Borg-Warner Corp., York, Pa.
 Young Radiator Co., Racine, Wis.

UNITARY AIR CONDITIONERS, YEAR 'ROUND, SELF-CONTAINED, ABSORPTION REFRIGERATION TYPE

Consisting of Blower, Filter, Humidifier, Heating and Cooling Cycle Activated by Heat Generating Equipment, for Duct Distribution of Air

Air Conditioning Engineering Co., Cambridge, Mass.
 Arkla Air Conditioning Corp., Little Rock, Ark.
 Day & Night Mfg. Co., La Puente, Calif.
 Payne Co., The, La Puente, Calif.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 Weatherbuster Corp., Camden, Ark.
 York Div. of Borg-Warner Corp., York, Pa.

UNITARY AIR CONDITIONERS, YEAR 'ROUND, SELF-CONTAINED, FLOOR CABINET

Consisting of Blower, Filter, Humidifier, Direct-Fired Warm Air Furnace, Cooling Coil and Compressor-Condenser Unit, for Duct Distribution of Air

Air Conditioning Engineering Co., Cambridge, Mass.
 Airtemp Div., Chrysler Corp., Dayton, O.

American Furnace Co., St. Louis, Mo.
 American-Standard Air Conditioning Div., New York, N. Y.
 Bard Mfg. Co., Bryant, O.
 Besser Furnace and Air Conditioning Corp., Charlotte, N. C.
 Bonair Div., Peerless Products Co., Philadelphia, Pa.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Century Engineering Corp., Cedar Rapids, Iowa
 Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.
 Day & Night Mfg. Co., La Puente, Calif.
 Delco Appliance Div., General Motors Corp., Rochester, N. Y.
 Dualtron Co., Pittsburgh, Pa.
 Fraser & Johnston Co., San Francisco, Calif.
 Henry Furnace Co., Medina, O.
 International Heater Co., Utica, N. Y.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
 Keith Furnace Co., Des Moines, Ia.
 Lennox Industries Inc., Marshalltown, Ia.
 Majestic Co., Inc., Huntington, Ind.
 Mayflower Air Conditioners, Inc., St. Paul, Minn.
 Meyer Furnace Co., Peoria, Ill.
 Mueller Climatrol, Milwaukee, Wis.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Oneida Heater Co., Inc., Oneida, N. Y.
 Patten Co., J. V., Sycamore, Ill.
 Peerless Corp., Indianapolis, Ind.
 Ralph Mfg. Co., Inc., Wadsworth, O.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, O.
 Sequoia Mfg. Co., San Carlos, Calif.
 Skinner Heating & Ventilating Co. Div. Young Sales Corp., St. Louis, Mo.
 Southwest Mfg. Co., Aurora, Mo.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 Waterman-Waterbury Co., Minneapolis, Minn.
 York Div. of Borg-Warner Corp., York, Pa.

UNITARY AIR CONDITIONERS, YEAR 'ROUND, SELF-CONTAINED, HORIZONTAL CABINET

Consisting of Blower, Filter, Humidifier, Direct-Fired Warm Air Furnace, Cooling Coil and Compressor-Condenser Unit, for Duct Distribution of Air

Armstrong Furnace Co., Div. of National Union Electric Corp., Columbus, O.
 Besser Furnace and Air Conditioning Corp., Charlotte, N. C.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Century Engineering Corp., Cedar Rapids, Iowa
 Day & Night Mfg. Co., La Puente, Calif.
 Fraser & Johnston Co., San Francisco, Calif.
 Harvey-Hill, Inc., St. Louis, Mo.
 International Metal Products Div., McGraw-Edison Co., Phoenix, Ariz.
 Meyer Furnace Co., Peoria, Ill.
 Patten Co., J. V., Sycamore, Ill.
 Peerless Corp., Indianapolis, Ind.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Sequoia Mfg. Co., San Carlos, Calif.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Lebanon, Ind.
 Texas Products Mfg. Co., Waco, Tex.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn, N. Y.
 Ventil-Aire Corp., Ridgewood, N. Y.
 Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
 Williamson Co., The, Cincinnati, O.

UNITARY AIR CONDITIONERS, YEAR 'ROUND, SELF-CONTAINED, ROOF MOUNTED

Consisting of Blower, Filter, Humidifier, Direct-Fired Warm Air Furnace, Cooling Coil and Compressor-Condenser Unit, for Duct Distribution of Air

Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.

Lennox Industries Inc., Marshalltown, Iowa
 Mammoth Industries Inc., Minneapolis, Minn.
 Perfection Div., Hupp Corp., Cleveland, O.
 Typhoon Air Conditioning Co., Div. of Hupp Corp.,
 Brooklyn, N. Y.
 Ventil-Aire Corp., Ridgewood, N. Y.
 Welbilt Air Conditioning and Heating Corp., Farmingdale,
 N. J.
 Wright-Temp Mfg. Co., Phoenix, Ariz.

UNITARY AIR CONDITIONERS, YEAR 'ROUND, SPLIT SYSTEM

**Consisting of Blower, Filter, Humidifier, Direct-Fired Warm Air
Furnace and Cooling Coil for Connection to Remote Compressor-
Condenser Unit, for Duct Distribution of Air**

Air Conditioning Engineering Co., Cambridge, Mass.
 Airtemp Div., Chrysler Corp., Dayton, O.
 American Furnace Co., St. Louis, Mo.
 Arizona Maintenance Co., Tucson, Ariz.
 Armstrong Furnace Co., Div. of National Union Electric Corp.,
 Columbus, O.
 Bar-Brook Mfg. Co., Inc., Shreveport, La.
 Bard Mfg. Co., Bryant, O.
 Besser Furnace and Air Conditioning Corp., Charlotte, N. C.
 Bryant Mfg. Co., Indianapolis, Ind.
 Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse,
 N. Y.
 Century Engineering Corp., Cedar Rapids, Iowa
 Cobell Industries, Inc., Cleburne, Tex.
 Coleman Co., Inc., Wichita, Kans.
 Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.
 Day & Night Mfg. Co., La Puente, Calif.
 Fraser & Johnston Co., San Francisco, Calif.
 Freidrich Refrigerators, Inc., San Antonio, Tex.
 Global Air Conditioning Corp., San Francisco, Calif.
 Heil-Quaker Corp., Nashville, Tenn.
 Henry Furnace Co., Medina, O.
 Holly-General Co., Pasadena, Calif.
 Home Furnace Co., Holland, Mich.
 International Heater Co., Utica, N. Y.
 Janitrol Heating and Air Conditioning Div., Midland-Ross
 Corp., Columbus, O.
 Lennox Industries Inc., Marshalltown, Ia.
 Majestic Co., Inc., Huntington, Ind.
 Meyer Furnace Co., Peoria, Ill.
 Miami Products Div. of Crane Co., Miami, Okla.
 Mueller Climatrol, Milwaukee, Wis.
 Olsen Mfg. Co., The C. A., Elyria, O.
 Oneida Heater Co., Inc., Oneida, N. Y.
 Patten Co., J. V., Sycamore, Ill.
 Peerless Corp., Indianapolis, Ind.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Rybolt Heater Co., Ashland, O.
 Southwest Mfg. Co., Aurora, Mo.
 Trane Co., The, La Crosse, Wis.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., Brooklyn,
 N. Y.
 Waterman-Waterbury Co., Minneapolis, Minn.
 Williams Oil-O-Matic Heating Co., Div. of National Union Elec-
 tric Corp., Columbus, O.
 Williamson Co., The Cincinnati, O.
 York Div. of Borg-Warner Corp., York, Pa.

UNITARY AIR CONDITIONERS, YEAR 'ROUND, WINDOW TYPE, SELF-CONTAINED

**Consisting of Blower, Filter, Cooling Coil, Compressor-Condenser
Unit and Means for Heating**

Airtemp Div., Chrysler Corp., Dayton, O.
 Albion Div., McGraw-Edison Co., Albion, Mich.
 Amana Refrigeration, Inc., Amana, Ia.
 Blissfield Mfg. Co., Blissfield, Mich.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse,
 N. Y.
 Curtis Mfg. Co., Refrigeration Div., St. Louis, Mo.
 Emerson Radio & Phonograph Corp., Jersey City, N. J.
 Fedders Corp., Maspeth, N. Y.
 General Electric Co., Room Air Conditioner Dept., Major
 Appliance Div., Louisville, Ky.

Kelvinator Div., American Motors Corp., Detroit, Mich.
 King Refrigerator Co., Glendale, N. Y.
 RCA-Whirlpool, Central Home Air Conditioning Div., Whirl-
 pool Corp., St. Joseph, Mich.
 Remington Air Conditioning Div., Remington Corp., Auburn,
 N. Y.
 Viking Mfg. Corp., Cleveland, O.
 Westinghouse Electric Corp., Major Appliance Div., Mansfield, O.
 York Div. of Borg-Warner Corp., York, Pa.

UNIT HEATERS

See Heaters, Unit

UNITS, AIR CONDITIONER

See Unitary Air Conditioners

UNITS, AIR CONDITIONING, CENTRAL PLANT, RESIDENTIAL, WINTER ONLY, CONSISTING OF FURNACE, BLOWER, FILTER AND HUMIDIFIER

See Furnaces, Forced Warm Air

UNITS, HEATING AND VENTILATING, HORIZONTAL PACKAGE TYPE, DIRECT-FIRED

Aerovent Fan Co., Inc., Piqua, O.
 Campbell Co., E. K., Kansas City, Mo.
 Chicago Steel Furnace Co., Chicago, Ill.

UNITS, HEAT RECOVERY, AIR TO AIR

Heat Recovery Corp., Newark, N.J.
 Therm-O-Wheel, Inc., Long Island City, N. Y.

UNITS, HEAT STORAGE FOR WARM AIR FURNACES

Hexdall Co., A. M., Morris, Ill.

UNITS, MAKE-UP AIR, HEATING AND VENTILATING, HORIZONTAL PACKAGE TYPE, DIRECT-FIRED, GAS

For Furnishing Preheated Outdoor Air to Replace Exhausted Air

Aerovent Fan Co., Inc., Piqua, O.
 Hartzell Propeller Fan Co., Div. Castle Hills Corp., Piqua, O.
 Lennox Industries Inc., Marshalltown, Iowa
 Mid-Continent Metal Products Co., Chicago, Ill.
 National Heater Co., Inc., St. Paul, Minn.
 Norman Products Co., Columbus, O.
 Wing Mfg. Div., L. J., Aero Supply Mfg. Co., Inc., Linden,
 N. J.

UNITS, MAKE-UP AIR, HEATING AND VENTILATING, HORIZONTAL PACKAGE TYPE, DIRECT-FIRED, OIL

For Furnishing Preheated Outdoor Air to Replace Exhausted Air

Campbell Heating Co., Des Moines, Ia.
 Chicago Steel Furnace Co., Chicago, Ill.
 Lennox Industries Inc., Marshalltown, Iowa
 National Heater Co., Inc., St. Paul, Minn.

UNITS, MAKE-UP AIR, HEATING AND VENTILATING, HORIZONTAL PACKAGE TYPE, STEAM OR HOT WATER

For Furnishing Preheated Outdoor Air to Replace Exhausted Air

Hartzell Propeller Fan Co., Div. Castle Hills Corp., Piqua, O.
 Wing Mfg. Div., L. J., Aero Supply Mfg. Co., Inc., Linden,
 N. J.

UNITS, MIXING, SOUND AND VOLUME CONTROL, FOR DOUBLE DUCT HIGH VELOCITY AIR CONDITIONING SYSTEMS

Air Devices, Inc., New York, N. Y.
 Anemostat Corp. of America, New York, N. Y.

Barber-Colman Co., Rockford, Ill.
 Buensod-Stacey Corp., New York, N. Y.
 Carnes Corp., Verona, Wis.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Connor Engineering Corp., Danbury, Conn.
 Hansson, Inc., Etof, Acoustical Div., New York, N. Y.
 Hi-Press Air Conditioning of America, New York, N. Y.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Tuttle & Bailey Div. of Allied Thermal Corp., New Britain, Conn.
 Worthington Corp., Harrison, N. J.

UNITS, POWER DRAFT

For Increasing Chimney Capacity

Ammerman Co., Inc., Stillwater, Minn.
 Bastian-Morley Co., Inc., La Porte, Ind.
 Breese Burners, Inc., Sales and Appliance Engineering Div., Milwaukee, Wis.
 Brumme Mfg. Co., Topeka, Kans.
 McLarty Systems, Battle Creek, Mich.
 Quickdraft Corp., Canton, O.
 Tjernlund Mfg. Co., St. Paul, Minn.
 Walker Mfg. & Sales Corp., St. Joseph, Mo.

USED SHEET METAL WORKING MACHINES

See Machinery, Sheet Metal, Rebuilt and Used

VACUUM CLEANERS FOR FURNACES

See Cleaners, Vacuum, Furnace

VALLEY FLASHING

See Roofing, Sheet Metal

VALVES, FUEL OIL METERING

See Controls, Fuel Oil Metering Valves

VALVES, GAS, AUTOMATIC SHUT OFF

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
 Baso Inc., Milwaukee, Wis.
 Cam-StaT Inc., Div. Paul Henry Co., Los Angeles, Calif.
 Combustion Control Div., Electronics Corp., of America, Cambridge, Mass.
 Controls Div. of American-Standard, Detroit, Mich.
 Eclipse Fuel Engineering Co., Rockford, Ill.
 Fisher Governor Co., Marshalltown, Ia.
 General Controls Co., Glendale, Calif.
 Grayson Controls Div., Robertshaw-Fulton Controls Co., Long Beach, Calif.
 Handley-Brown Co., Jackson, Mich.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Patrol Valve Co., Cleveland, O.
 Penn Controls, Inc., Goshen, Ind.
 Reynolds Gas Regulator Co., Anderson, Ind.
 Robertshaw-Fulton Controls Co., Richmond, Va.
 Thermac Co., Corona, Calif.
 White-Rodgers Co., St. Louis, Mo.

VALVES, GAS, MOTORIZED

Combustion Control Div., Electronics Corp. of America, Cambridge, Mass.
 Eclipse Fuel Engineering Co., Rockford, Ill.
 General Controls Co., Glendale, Calif.
 Keckley Co., O. C., Skokie, Ill.
 Milwaukee Gas Specialty Co., Milwaukee, Wis.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Robertshaw-Fulton Controls Co., Richmond, Va.

VALVES, GAS PRESSURE REGULATING

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
 American Meter Co., Inc., Reliance Regulator Div., Alhambra, Calif.
 Bristol Co., Waterbury, Conn.

Cam-StaT Inc., Los Angeles, Calif.
 Controls Div. of American-Standard, Detroit, Mich.
 Davis Regulator Co., Chicago, Ill.
 Defender Instrument & Regulator Co., Boody, Ill.
 Deutsch Controls Corp., Los Angeles, Calif.
 Dewey Gas Furnace Co., Detroit, Mich.
 Dockson Corp., Detroit, Mich.
 Eclipse Fuel Engineering Co., Rockford, Ill.
 Fisher Governor Co., Marshalltown, Iowa.
 Gas & Oil Industry Laboratories, Inc., Irvington, N. J.
 General Controls Co., Glendale, Calif.
 Grayson Controls Div., Robertshaw-Fulton Controls Co., Long Beach, Calif.
 Harris Caloric Co., Cleveland, Ohio.
 Hubbell Corp., Mundelein, Ill.
 Major Controls Co., Corona, Calif.
 Maxitrol Co., Southfield, Mich.
 McCorkle Co., D. H., Berkeley, Calif.
 Mercoid Corp., Chicago, Ill.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Mueller Co., Decatur, Ill.
 Penn Controls, Inc., Goshen, Ind.
 Reynolds Gas Regulator Co., Anderson, Ind.
 Robertshaw-Fulton Controls Co., Richmond, Va.
 Rockwell Mfg. Co., Meter and Valve Div., Pittsburgh, Pa.
 Thermac Co., Corona, Calif.
 Thompson Products, Inc., Valve Div., Cleveland, O.
 Weldit, Inc., Detroit, Mich.

VALVES, GAS, SAFETY PILOT

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
 Baso Inc., Milwaukee, Wis.
 Controls Div. of American-Standard, Detroit, Mich.
 General Controls Co., Glendale, Calif.
 Grayson Controls Div., Robertshaw-Fulton Controls Co., Long Beach, Calif.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Penn Controls, Inc., Goshen, Ind.
 Robertshaw-Fulton Controls Co., Richmond, Va.
 Thermac Co., Corona, Calif.
 White-Rodgers Co., St. Louis, Mo.

VALVES, HUMIDIFIER, FLOAT

Arkion Products Co., Cleveland, O.
 Fisher Governor Co., Marshalltown, Iowa.
 Lincoln Brass Works, Detroit, Mich.
 McDonnell & Miller, Inc., Chicago, Ill.
 Maid-O'-Mist, Inc., Chicago, Ill.
 Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Morey, Dan, Los Angeles, Calif.
 Reitman Mfg. Co., Oakland, Calif.
 Robert Mfg. Co., Los Angeles, Calif.
 Skuttle Mfg. Co., Milford, Mich.
 Viking Air Products Div. of The Lau Blower Co., Cleveland, O.

VALVES, REFRIGERATION, EXPANSION, THERMOSTATIC

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
 Alco Valve Co., St. Louis, Mo.
 Controls Div. of American-Standard, Detroit, Mich.
 General Controls Co., Glendale, Calif.
 Sporlan Valve Co., St. Louis, Mo.
 Tenney Engineering, Inc., Union, N. J.
 X L Refrigerating Co., Chicago, Ill.

VALVES, REFRIGERATION, WATER REGULATING, PRESSURE OR TEMPERATURE ACTUATED

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
 Alco Valve Co., St. Louis, Mo.
 Art Valve Co., Chicago, Ill.
 Bailey Co., Chas. M., San Francisco, Calif.
 Cash Co., A. W., Decatur, Ill.
 General Controls Co., Glendale, Calif.
 Klippel Valves, Inc., Hamilton, Ohio.
 Marsh Corp., Jas. P., Skokie, Ill.
 McIntire Co., Livingston, N. J.
 Mueller Brass Co., Port Huron, Mich.
 Mueller Co., Decatur, Ill.

Penn Controls, Inc., Goshen, Ind.
Powers Regulator Co., Skokie, Ill.
Sarco Co., Inc., New York, N. Y.

VALVES, RELIEF, HOT WATER HEATER, DOMESTIC, COMBINED PRESSURE AND TEMPERATURE ACTUATED

Cash Co., A. W., Decatur, Ill.
Lincoln Brass Works, Detroit, Mich.
Mansfield Sanitary, Inc., Perrysville, O.
McDonnell & Miller, Inc., Chicago, Ill.
Patrol Valve Co., Cleveland, O.

VALVES, RELIEF, HOT WATER HEATER, DOMESTIC, PRESSURE ACTUATED

Burn-Rite Products Co., Yonkers, N. Y.
Lincoln Brass Works, Detroit, Mich.
McDonnell & Miller, Inc., Chicago, Ill.
Mueller Co., Decatur, Ill.
Patrol Valve Co., Cleveland, O.

VALVES, RELIEF, HOT WATER HEATER, DOMESTIC, TEMPERATURE ACTUATED

Grayson Controls Div., Robertshaw-Fulton Controls Co., Long Beach, Calif.
Lincoln Brass Works, Detroit, Mich.
Mansfield Sanitary, Inc., Perrysville, O.
McDonnell & Miller, Inc., Chicago, Ill.
Mueller Co., Decatur, Ill.

VALVES, SHUT-OFF, HUMIDIFIER WATER LINE

Arizona Maintenance Co., Tucson, Ariz.
Arklon Products Co., Cleveland, O.
Imperial Brass Mfg. Co., Chicago, Ill.
Maid-O'-Mist Inc., Chicago, Ill.

VALVES, SOLENOID

A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
Alco Valve Co., St. Louis, Mo.
Atkomatic Valve Co., Inc., Indianapolis, Ind.
Automatic Switch Co., Florham Park, N.J.
Barksdale Valves, Los Angeles, Calif.
Baso Inc., Milwaukee, Wis.
Combustion Control Div., Electronics Corp. of America, Cambridge, Mass.
Controls Div. of American-Standard, Detroit, Mich.
Davis Regulator Co., Chicago, Ill.
Eclipse Fuel Engineering Co., Rockford, Ill.
Frick Co., Waynesboro, Pa.
General Controls Co., Glendale, Calif.
Grayson Controls Div., Robertshaw-Fulton Controls Co., Long Beach, Calif.
Grove Valve & Regulator Co., Oakland, Calif.
Guardian Electric Mfg. Co., Chicago, Ill.
Hays Mfg. Co., Erie, Pa.
Hubbell Corp., Mundelein, Ill.
Hunt Valve Co., Salem, Ohio.
Jackes-Evans Mfg. Co., St. Louis, Mo.
Keckley Co., O. C., Skokie, Ill.
Lammert & Mann Co., Chicago, Ill.
Locke Regulator Co., Salem, Mass.
Marsh Corp., Jas. P., Skokie, Ill.
McDonnell & Miller, Inc., Chicago, Ill.
McQuay-Norris Mfg. Co., St. Louis, Mo.
Mercoird Corp., Chicago, Ill.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Penn Controls, Inc., Goshen, Ind.
Ranco Inc., Columbus, O.
Sarco Co., Inc., New York, N. Y.
Sarcotherm Controls, Inc., New York, N. Y.
Sciaky Bros., Inc., Chicago, Ill.
Skinner Electric Valve Div., Skinner Chuck Co., New Britain, Conn.
Sporlan Valve Co., St. Louis, Mo.
Square D Co., Industrial Controller Div., Milwaukee, Wis.
Supreme Electric Products Corp., Rochester, N. Y.
Thermac Co., Corona, Calif.

Webster Electric Co., Racine, Wis. (Fuel oil line)
White-Rodgers Co., St. Louis, Mo.

VALVES, SWITCHING, HEAT PUMP

Alco Valve Co., St. Louis, Mo.
General Controls Co., Glendale, Calif.
Ranco Inc., Columbus, O.
Sporlan Valve Co., St. Louis, Mo.

VANE RAILS

See Rails, Vane

VANES, DUCT TURNING

Anemostat Corp. of America, New York, N. Y.
Barber-Colman Co., Rockford, Ill.
Cain Mfg. Inc., Birmingham, Ala.
Duro-Dyne Corp., Farmingdale, N. Y.
Register & Grille Mfg. Co., Inc., Brooklyn, N. Y.
Titus Mfg. Corp., Waterloo, Iowa.
Tuttle & Bailey Div. of Allied Thermal Corp., New Britain, Conn.
Young Regulator Co., Cleveland, O.

VAPOR BARRIERS

See Barriers, Vapor, Crawl Space

VENT CAPS

See Caps, Fuel Tank, Vent

VENTILATION SYSTEM FITTINGS FOR AUTOMOBILE EXHAUST

See Fittings, Exhaust, Garage

VENTILATOR AND FILTER UNITS, WINDOW

Airgard Mfg. Co., Chicago, Ill.
Berns Air King Corp., Chicago, Ill.
Frigid, Inc., Brooklyn, N. Y.
Reed Unit-Fans, Inc., New Orleans, La.
Unified Air Conditioner Co., Duluth, Minn.
United States Register Co., Battle Creek, Mich.
Utility Appliance Corp., Los Angeles, Calif.

VENTILATORS, CRAWLSPACE

Adams Co., The, Dubuque, Ia.
Air Control Products, Inc., Coopersville, Mich.
Appleton Supply Co., Inc., Appleton, Wis.
Construction Specialties, Inc., Cranford, N. J.
Donley Bros. Co., Cleveland, O.
Hohmann & Barnard, Inc., New York, N. Y.
Inland Steel Products Co., Milwaukee, Wis.
Leslie Welding Co., Inc., Franklin Park, Ill.
United States Register Co., Battle Creek, Mich.

VENTILATORS, ROOF, GRAVITY

Accurate Sheet Metal & Mfg. Works, Chicago, Ill.
Air Control Products, Inc., Coopersville, Mich.
Air Devices, Inc., New York, N. Y.
Airjet Ventilator Co., San Clemente, Calif.
Allen Cooler & Ventilator Inc., Rochester, Mich.
American Foundry & Furnace Co., Bloomington, Ill.
Ammerman Co., Inc., Stillwater, Minn.
Appleton Supply Co., Inc., Appleton, Wis.
Arex Co., Chicago, Ill.
Badger Furnace Pipe Co., Madison, Wis.
Bowman Steel Corp., Pittsburgh, Pa.
Breidert Co., G. C., San Fernando, Calif.
Brisk Metal Products Div., Brisk Waterproofing Co., Ridgefield, N. J.
Burt Mfg. Co., Akron, Ohio

Chicago Blower Corp., Franklin Park, Ill.
 Clay Equipment Corp., Cedar Falls, Iowa.
 Colt Ventilation of America, Inc., Los Angeles, Calif.
 Cook Co., Loren, Berea, O.
 Damp-Vent Co., Bettendorf, Ia.
 Donaldson Power Roof Ventilator Co., Los Angeles, Calif.
 Donley Bros. Co., Cleveland, O.
 Empire Ventilation Equipment Co., Long Island City, N. Y.
 Exit-Aire Ventilating Co., Pacoima, Calif.
 Fingles Co., Baltimore, Md.
 Gallaher Co., Omaha, Nebr.
 Garland Mfg. Co., Saco, Maine
 Gehri Sheet Metal Co., Tacoma, Wash.
 Greenheck Fan and Ventilator Corp., Schofield, Wis.
 Hirschman-Pohle Co., Inc., LeRoy, N. Y.
 Inland Steel Products Co., Milwaukee, Wis.
 International Metal Products Co., Phoenix, Ariz.
 Iona Ventilator Co., Inc., Philadelphia, Pa.
 Jordan & Co., Inc., Paul R., Indianapolis, Ind.
 Klauer Mfg. Co., Dubuque, Iowa.
 LaCrosse Steel Roofing & Corrugating Co., LaCrosse, Wis.
 Leslie Welding Co., Inc., Franklin Park, Ill.
 Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif.
 Lumme Co., A. H., Toledo, Ohio.
 M & E Mfg. Co., Indianapolis, Ind.
 Maple City Furnace Co., Monmouth, Ill.
 Marco Co., East Orange, N. J.
 Martin Fan & Blower Co., Chicago, Ill.
 Midwest Airmoving Corp., Willoughby, O.
 Moeschl-Edwards Corrugating Co., Inc., Cincinnati, Ohio.
 Muckle Mfg. Co., Owatonna, Minn.
 Octagon Ventilator Mfg. Co., Jackson, Tenn.
 Penn Ventilator Co., Inc., Philadelphia, Pa.
 Pennsylvania Wire Glass Co., Philadelphia, Pa.
 Perkinson, William J., Chicago, Ill.
 Plasteel Products Corp., Washington, Pa.
 Puhl & Hepper Mfg. Co., Inc., St. Louis, Mo.
 Ralph Mfg. Co., Inc., Wadsworth, Ohio.
 Riggin Metal Products, Inc., Kankakee, Ill.
 Robertson Co., H. H., Pittsburgh, Pa.
 Romla Co., Los Angeles, Calif.
 Royal-Apex Mfg. Co., Inc., Brooklyn, N. Y.
 Ryniker Steel Products Co., Billings, Mont.
 Sheet Metal Mfg. Co., Inc., Brooklyn, N. Y.
 Simpson Co., Oakland, Calif.
 Sioux Steel Co., Sioux Falls, S. D.
 Southbridge Roofing Co., Inc., Southbridge, Mass.
 Steelcraft Mfg. Co., Rossmore, O.
 Swartwout Fabricators, Inc., Kokomo, Ind.
 Thor Metal Products Co., Inc., Syracuse, N. Y.
 Tierney Rotor Ventilator Co., Minneapolis, Minn.
 Tiffin Art Metal Co., Tiffin, Ohio.
 Triangle Engineering Co., Houston, Tex.
 United Sheet Metal Co., Inc., Columbus, O.
 Uno Ventilator Co., Malden, Mass.
 Van Noorden Co., E., Boston, Mass.
 Walker Mfg. & Sales Corp., St. Joseph, Mo.
 Warner Ventilator Co., LaGrange, Ind.
 Wasco Products, Inc., Cambridge, Mass.
 Waverly Heating Supply Co., Beverly, Mass.

VENTILATORS, ROOF, POWER, MUSHROOM TYPE

Acme Engineering & Mfg. Corp., Muskogee, Okla.
 Air Conditioning Engineering Co., Cambridge, Mass.
 Aladdin Heating Corp., San Leandro, Calif.
 Allen Cooler & Ventilator Inc., Rochester, Mich.
 American Coolair Corp., Jacksonville, Fla.
 American-Standard Industrial Div., Detroit, Mich.
 Ammerman Co., Inc., Stillwater, Minn.
 Arden Airoflo Engineering, Inc., El Monte, Calif.
 Bertram Co., Harvey P., Cincinnati, O.
 Bowman Steel Corp., Pittsburgh, Pa.
 Breidert Co., G. C., San Fernando, Calif.
 Buffalo Forge Co., Buffalo, N. Y.
 Burt Mfg. Co., Akron, O.
 Carnes Corp., Verona, Wis.
 Chicago Blower Corp., Franklin Park, Ill.
 Clarage Fan Co., Kalamazoo, Mich.
 Consolidated General Products, Inc., Houston, Tex. (Plastic)
 Cook Co., Loren, Berea, O.
 De Bothezat Fans Div., American Machine and Metals, Inc., East Moline, Ill.
 Detroit Blower Corp., Franklin Park, Ill.
 Donaldson Power Roof Ventilator Co., Los Angeles, Calif.
 Exit-Aire Ventilating Co., Pacoima, Calif.
 Gallaher Co., Omaha, Nebr.

Greenheck Fan and Ventilator Corp., Schofield, Wis.
 Heil Process Equipment Corp., Cleveland, O.
 Higgins Metal Products Co., The Swanton, O.
 Hirschman-Pohle Co., Inc., Le Roy, N. Y.
 Ilg Electric Ventilating Co., Chicago, Ill.
 International Process Equipment Co. Div., The Patterson Foundry and Machine Co., East Liverpool, O.
 Iona Ventilator Co., Inc., Philadelphia, Pa.
 Iron Lung Ventilator Co., Cleveland, O.
 Jenn Air Products Co., Indianapolis, Ind.
 Jordan & Co., Inc., Paul R., Indianapolis, Ind.
 King Co., Owatonna, Minn.
 M & W Sales Corp., Long Island City, N.Y.
 Martin Fan & Blower Co., Chicago, Ill.
 Midwest Airmoving Corp., Willoughby, O.
 Muckle Mfg. Co., Owatonna, Minn.
 New York Blower Co., Chicago, Ill.
 Octagon Ventilator Mfg. Co., Jackson, Tenn.
 Peerless Electric Div., H. K. Porter Co., Warren, O.
 Penn Ventilator Co., Inc., Philadelphia, Pa.
 Power Line Fan Co., Div. of Chelsea Products Inc., Plainfield, N. J.
 Propellair Div., Robbins & Myers, Inc., Springfield, O.
 Reynolds Ventilator Mfg. Corp., Chicago, Ill.
 Robinson Clay Product Co., Akron, O.
 South Bend Air Products, Inc., South Bend, Ind.
 Structa-Lung Co., Willoughby, O.
 Swartwout Fabricators, Inc., Kokomo, Ind.
 Triangle Engineering Co., Houston, Tex.
 Trane Co., The LaCrosse, Wis.
 Uno Ventilating Co., Malden, Mass.
 Van Noorden Co., E., Boston, Mass.
 Western Engineering & Mfg. Co., Venice, Calif.
 Wind-Way Fan & Ventilator Co., New Orleans, La.
 Wing Mfg. Div., L. J., Aero Supply Mfg. Co., Inc., Linden, N. J.

VENTILATORS, ROOF, POWER, PENTHOUSE TYPE

Accurate Sheet Metal & Mfg. Works, Chicago, Ill.
 Acme Engineering & Mfg. Corp., Muskogee, Okla.
 Aerovent Fan Co., Piqua, Ohio.
 Airjet Ventilator Co., San Clemente, Calif.
 Aladdin Heating Corp., Oakland, Calif.
 American Coolair Corp., Jacksonville, Fla.
 American-Standard Industrial Div., Detroit, Mich.
 Ammerman Co., Inc., Stillwater, Minn.
 Arex Co., Chicago, Ill.
 Arizona Maintenance Co., Tucson, Ariz.
 Atmos Corp., Chicago, Ill.
 Bar-Brook Mfg. Co., Inc., Shreveport, La.
 Bertram Co., Harvey P., Cincinnati, Ohio.
 Bishop Co., R. H. Champaign, Ill.
 Buffalo Forge Co., Buffalo, N. Y.
 Burt Mfg. Co., Akron, Ohio.
 Carnes Corp., Verona, Wis.
 Century Fan & Ventilator Co., Inc., Stamford, Conn.
 Chelsea Fan & Blower Co., Inc., Plainfield, N. J.
 Chicago Blower Corp., Franklin Park, Ill.
 Clarage Fan Co., Kalamazoo, Mich.
 Clay Equipment Corp., Cedar Falls, Iowa.
 Cook Co., Loren, Berea, Ohio.
 Dana Fan & Blower Corp., Cincinnati, Ohio.
 Davidson Roof Fan Co., Newton, Mass.
 DeBothezat Fans Div., American Machine & Metals, Inc., East Moline, Ill.
 Diehl Mfg. Co., Somerville, N. J.
 Electrovent Fan & Mfg. Co., Chicago, Ill.
 Empire Ventilation Equipment Co., Long Island City, N. Y.
 Exit-Aire Ventilating Co., Pacoima, Calif.
 Fingles Co., Baltimore, Md.
 Fort Valley Fan Co., Fort Valley, Ga.
 Gehri Sheet Metal Co., Tacoma, Wash.
 Genie Air Products, Div. of N.T.W. Corp., Los Angeles, Calif.
 Hartzell Propeller Fan Co., Div. Castle Hills Corp., Piqua, Ohio.
 Hayes Furnace Mfg. & Supply Co., Los Angeles, Calif.
 Hunter Div., Robbins & Myers, Inc., Memphis, Tenn.
 Ilg Electric Ventilating Co., Chicago, Ill.
 International Process Equipment Co. Div., The Patterson Foundry and Machine Co., East Liverpool, O.
 Iona Ventilator Co., Inc., Philadelphia, Pa.
 Jenn Air Products Co., Indianapolis, Ind.
 Joy Mfg. Co., Pittsburgh, Pa.
 King Co., Owatonna, Minn.
 Los Angeles Sheet Metal Mfg. Co., Inc., Los Angeles, Calif.
 Lumme Co., A. H., Toledo, Ohio.
 M & E Mfg. Co., Indianapolis, Ind.

Martin Fan & Blower Co., Chicago, Ill.
 Mountain States Equipment Co., Denver, Ohio.
 Muckle Mfg. Co., Owatonna, Minn.
 New York Blower Co., Chicago, Ill.
 Peerless Electric Div., H. K. Porter Co., Warren, Ohio.
 Penn Ventilator Co., Inc., Philadelphia, Pa.
 Perkinson, William J., Chicago, Ill.
 Power Line Fan Co., Div. of Chelsea Products Inc., Plainfield, N. J.
 Puhl & Hepper Mfg. Co., Inc., St. Louis, Mo.
 Rich Fan Mfg. Co., Phil, Houston, Tex.
 Robbins & Myers, Inc., Springfield, Ohio.
 Robertson Co., H. H., Pittsburgh, Pa. (Round-Rectangular)
 Romla Co., Los Angeles, Calif.
 Royal-Apex Mfg. Co., Inc., Brooklyn, N. Y.
 Sargent EnginAiring Co., Cleveland, O.
 South Bend Air Products, Inc., South Bend, Ind.
 Steelcraft Mfg. Co., Rossmoyne, O.
 Swartwout Fabricators, Inc., Kokomo, Ind.
 Trade-Wind Div., Robbins & Myers, Inc., Pico Rivera, Calif.
 Triangle Engineering Co., Houston, Tex.
 Uno Ventilator Co., Malden, Mass.
 Van Noorden Co., E., Boston, Mass.
 Wasco Products, Inc., Cambridge, Mass.
 Waverly Heating Supply Co., Beverly, Mass.
 Western Engineering & Mfg. Co., Venice, Calif.
 Woolley Engineering Co., Detroit, Mich.

VENTS, GAS

American Metal Products, Los Angeles, Calif.
 Chimney Sales Corp., Washington, D.C.
 Dura-Vent Corp., Sub. of Dover Corp., Redwood City, Calif.
 General Products Co., Fredericksburg, Va.
 Hart & Cooley Mfg. Co., Holland, Mich.
 Johns-Manville, New York, N.Y.
 Thor Metal Products Co., Inc., Syracuse, N.Y.
 Van-Packer Co., Div. of Flintkote Co., Chicago Heights, Ill.
 Wallace Co., William, Metalbestos Div., Belmont, Calif.

VENT SYSTEMS, LAUNDRY DRYER

Air Control Products, Inc., Coopersville, Mich.
 Badger Furnace Pipe Co., Madison, Wis.
 Cole-Sewell Engineering Co., St. Paul, Minn.
 Excelsior Steel Furnace Co., Chicago, Ill.
 Penn Supply & Metal Corp., Philadelphia, Pa.
 St. Clair Metal Products Co., Cleveland, O.
 Wilder Products Co., Springfield, O.

VIBRATION ISOLATORS

See Bases, Vibration Isolating

VOLTMETERS, AMMETERS, WATTMETERS, ETC.

Airserco Mfg. Co., Pittsburgh, Pa.
 Daystrom-Weston Sales Div., Daystrom Inc., Newark, N. J.
 Pyramid Instrument Corp., Lynbrook, L.I., N.Y.
 Simpson Electric Co., Chicago, Ill.

WALL HEATERS

See Furnaces, Forced Warm Air, Wall; Furnaces, Warm Air, Gravity

WASHERS, AIR

Air Cooling Engineering Co., Evanston, Ill.
 Airfan Engineering Co., Los Angeles, Calif.
 Air & Refrigeration Corp., New York, N. Y.
 Alton Mfg. Co., Dallas, Texas.
 American-Standard Industrial Div., Detroit, Mich.
 Bahnson Co., Winston-Salem, N. C.
 Bayley Blower Co., Milwaukee, Wis.
 Buensod-Stacey Corp., New York, N. Y.
 Buffalo Forge Co., Buffalo, N. Y.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Clarage Fan Co., Kalamazoo, Mich.
 Columbus Heating & Ventilating Co., Columbus, Ohio.
 Comfort Products Inc., Dallas, Texas.
 Continental Air Filters, Inc., Louisville, Ky.

Ducon Co., The, Mineola, N. Y.
 KVS Industries Inc., North Sacramento, Calif.
 Mountain States Equipment Co., Denver, Colo.
 S & C Mfg. Co., Cincinnati, O.
 Spray Engineering Co., Burlington, Mass.
 Western Blower Co., Seattle, Wash.

WASHERS, FUME

Argo Plastic Products, Cleveland, O.
 Buffalo Forge Co., Buffalo, N. Y.
 Ducon Co., Inc., The, Mineola, N.Y.
 Du Verre, Inc., Buffalo, N.Y. (Plastic)
 Heil Process Equipment Corp., Cleveland, O.
 Industrial Plastic Fabricators, Inc., Norwood, Mass. (Plastic)
 Mahon Co., R. C., Detroit, Mich.
 S & C Mfg. Co., Cincinnati, O.
 Schutte and Koerting Co., Cornwell Heights, Bucks Co., Pa.

WATER HEATERS, DOMESTIC

See Heaters, Water, Domestic

WATER HEATING COILS, FIRE POT

See Coils, Fire Pot, Domestic Hot Water

WATERPROOFING MATERIALS

Anti-moisture penetrating and rust preventive

Arco Co., Cleveland, O.
 Armstrong Cork Co., Lancaster, Pa.
 Barrett Div., Allied Chemical Corp., New York, N. Y.
 Blue Ridge Talc Co., Henry, Va.
 Bowman Steel Corp., Pittsburgh, Pa.
 Cabot, Inc., Samuel, Boston, Mass.
 Calbar, Inc., Philadelphia, Pa.
 Carboline Co., St. Louis, Mo.
 Carey Mfg. Co., Philip, Cincinnati, Ohio.
 Carter Paint Co., Inc., Liberty, Ind.
 Cheesman-Elliott Co., Inc., Brooklyn, N. Y.
 Chemical Coatings & Engineering Co., Inc., Media, Pa.
 Coopers Creek Chemical Corp., West Conshohocken, Pa.
 Eagle-Picher Co., Cincinnati, O.
 Fibreboard Paper Products Corp., San Francisco, Calif.
 Flintkote Co., New York, N. Y.
 Glidden Co., Cleveland, Ohio.
 Hague & Co., Inc., Alfred, Div. of Lacquer & Chemical Corp. Brooklyn, N. Y.
 Horn Co., Inc., A. C., North Bergen, N.J.
 Johns-Manville, New York, N. Y.
 Koppers Co., Inc., Pittsburgh, Pa.
 Lester Laboratories, Inc., Atlanta, Ga.
 Metropolitan Refining Co., Inc., Long Island City, N. Y.
 Minnesota Mining & Mfg. Co., Adhesives, Coatings & Sealers Div., St. Paul, Minn.
 Nebel Mfg. Co., Cleveland, Ohio.
 North American Mogul Products Co., Cleveland, O.
 Pittsburgh Chemical, Summit, Ill.
 Presstite Div., American-Marietta Co., St. Louis, Mo.
 Products Research Co., Burbank, Calif.
 Reilly Tar & Chemical Corp., Indianapolis, Ind.
 Robertson Co., H. H., Pittsburgh, Pa.
 Ruberoid Co., New York, N. Y.
 Sonneborn Sons, Inc., L., New York, N. Y.
 Southport Paint Co., Div. Wesson Oil & Snowdrift Co., Inc. Savannah, Ga.
 Speco, Inc., Cleveland, O.
 Tamms Industries Co., Chicago, Ill.
 Toledo Paint and Chemical Co., Toledo, O.
 Truscon Laboratories, Detroit, Mich.
 Wasco Products, Inc., Cambridge, Mass.
 West Chester Chemical Co., West Chester, Pa.
 Whitlam Mfg. Co., J. C., Wadsworth, O.
 Wilbur & Williams Co., Norwood, Mass. (Zinc)
 X-Pando Corp., Long Island City, N. Y.

WATTMETERS, ETC.

See Voltmeters, Etc.

WEATHERVANES

Lynch & Sons, Kenneth, Wilton, Conn.
Miller & Doing, Brooklyn, N. Y.
Tennessee Fabricating Co., Memphis, Tenn.

WELDERS, ARC

Air Reduction Sales Co., New York, N. Y. (ac and dc)
Bren Weld Corp., Brooklyn, N.Y.
Electric Arc, Inc., Newark, N. J. (ac and dc)
Emerson Electric Mfg. Co., St. Louis, Mo.
Ergolyte Mfg. Co., Philadelphia, Pa.
Expert Welding Machine Co., Detroit, Mich. (ac and dc)
Fern, Ralph, Scranton, Pa. (ac)
General Dynamics Corp., Liquid Carbonic Div., Chicago, Ill. (ac and dc)
Hammett Electric Mfg. Co., Kansas City, Kans.
Harnischfeger Corp., Milwaukee, Wis. (Ac & dc)
Hobart Bros. Co., Troy, Ohio, (Ac & dc)
Hollup Corp., Div. National Cylinder Gas Co., Chicago, Ill.
K S M Products Inc., Moorestown, N. J.
Lincoln Electric Co., Cleveland, Ohio.
Marquette Mfg. Co., Div. of Marquette Corp., Minneapolis, Minn. (ac)
Metal & Thermit Corp., Rahway, N. J. (ac & dc)
Mid-States Welder Mfg. Co., Chicago, Ill. (ac)
Miller Electric Mfg. Co., Inc., Appleton, Wis. (ac & dc)
National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill. (ac and dc)
National Electric Welding Machine Co., Bay City, Mich.
Nelson Specialty Welding Equipment Corp., San Leandro, Calif. (Stud welder)
Nelson Stud Welding Div. Gregory Industries, Inc., Lorain, Ohio. (dc)
Peer, Inc., Benton Harbor, Mich. (ac and dc)
Precision Welder Mfg. Co., Chicago, Ill.
Rexarc, Inc., Sight Feed Generator Div., West Alexandria, O. (ac and dc)
Trindl Products, Ltd., Chicago, Ill. (ac)
Westinghouse Electric Corp., Pittsburgh, Pa. (ac & dc)

WELDERS, PLASTIC MATERIALS

See Guns, Plastic Welding

WELDERS, PROJECTION

Acme Electric Welder Co., Los Angeles, Calif.
Acro Welder Mfg. Co., Milwaukee, Wis.
Banner Welder, Inc., Milwaukee, Wis.
Eisler Engineering Co., Newark, N. J.
Electric Arc, Inc., Newark, N. J.
Expert Welding Machine Co., Detroit, Mich.
National Electric Welding Machines Co., Bay City, Mich.
Peer, Inc., Benton Harbor, Mich.
Progressive Welder & Machine Co., Pontiac, Mich.
Raytheon Co., Commercial Apparatus & Systems Div., Norwood, Mass.
Sciaky Bros., Inc., Chicago, Ill.
Swift Ohio Corp., Kenton, O.
Taylor-Winfield Corp., Warren, Ohio.

WELDERS, RESISTANCE

Acme Electric Welder Co., Los Angeles, Calif.
Acro Welder Mfg. Co., Milwaukee, Wis.
Ampower Products Co., Oak Lawn, Ill.
Banner Welder, Inc., Milwaukee, Wis.
DoALL Co., Des Plaines, Ill.
Eisler Engineering Co., Newark, N. J.
Electric Arc, Inc., Newark, N. J.
Expert Welding Machine Co., Detroit, Mich.
Grob, Inc., Grafton, Wis.
Micro Products Co., Chicago, Ill.
Miller Electric Mfg. Co., Inc., Appleton, Wis.
National Electric Welding Machines Co., Bay City, Mich.
Peer, Inc., Benton Harbor, Mich.
Progressive Welder & Machine Co., Pontiac, Mich.
Royson Engineering, Hatboro, Pa.
Sciaky Bros., Inc., Chicago, Ill.
Swift Ohio Corp., Kenton, O.
Taylor-Winfield Corp., Warren, Ohio.

Weldex Div. The Metal Craft Co., Southfield, Mich.
Westinghouse Electric Corp., Pittsburgh, Pa.

WELDERS, SEAM

Acme Electric Welder Co., Los Angeles, Calif.
Acro Welder Mfg. Co., Milwaukee, Wis.
Banner Welder, Inc., Milwaukee, Wis.
Eisler Engineering Co., Newark, N. J.
Electric Arc, Inc., Newark, N. J.
National Electric Welding Machines Co., Bay City, Mich.
Peer, Inc., Benton Harbor, Mich.
Progressive Welder & Machine Co., Pontiac, Mich.
Sciaky Bros., Inc., Chicago, Ill.
Swift Ohio Corp., Kenton, O.
Taylor-Winfield Corp., Warren, Ohio.
Weldex Div. The Metal Craft Co., Southfield, Mich.

WELDERS, SPOT

Acme Electric Welder Co., Los Angeles, Calif.
Acro Welder Mfg. Co., Milwaukee, Wis.
Air Reduction Sales Co., New York, N.Y.
Alphil Spot Welder Mfg. Corp., Brooklyn, N. Y.
Ampower Products Co., Oak Lawn, Ill.
Appliances Engineering, Chicago, Ill. (Portable)
Banner Welder, Inc., Milwaukee, Wis.
Bren Weld Corp., Brooklyn, N.Y.
Duro-Dyne Corp., Farmingdale, N. Y. (Portable)
Eisler Engineering Co., Newark, N. J.
Electric Arc, Inc., Newark, N. J.
Expert Welding Machine Co., Detroit, Mich.
Fern, Ralph, Scanton, Pa.
General Dynamics Corp., Liquid Carbonic Div., Chicago, Ill.
Graham Mfg. Corp., Needham Hts., Mass.
Hobart Bros. Co., Troy, O.
Linde Co., Div. Union Carbide Corp., New York, N. Y.
Merit Co., Chicago, Ill.
Metal & Thermit Corp., Rahway, N.J.
Micro Products Co., Chicago, Ill.
Mid-States Welder Mfg. Co., Chicago, Ill. (Portable)
Miller Electric Mfg. Co., Inc., Appleton, Wis.
National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
Peer, Inc., Benton Harbor, Mich.
Progressive Welder & Machine Co., Pontiac, Mich.
Raytheon Co., Commercial Apparatus & Systems Div., Norwood, Mass.
Schott Metal Products Co., Akron, O. (Hand model)
Sciaky Bros., Inc., Chicago, Ill.
Swift Ohio Corp., Kenton, O.
Taylor-Winfield Corp., Warren, Ohio.
Weldex Div. The Metal Craft Co., Southfield, Mich.
Westinghouse Electric Corp., Pittsburgh, Pa.

WELDERS, ULTRASONIC

Sonobond Corp., Subsidiary of Aeroprojects, Inc., West Chester, Pa.

WELDING FLUX

See Flux, Welding

WELDING ROD

See Rod, Welding

WELDING STUDS FOR CURTAIN WALL PANELS

See Studs, Welding

WELDING TORCHES

See Torches, Brazing, Cutting, Welding

WHEELS, BLOWER

Air Controls, Inc., Div. of Cleveland Heater Co., Cleveland, Ohio.
Airfan Engineering Co., Los Angeles, Calif.

Ammerman Co., Inc., Stillwater, Minn.
 Barry Blower Co., Minneapolis, Minn.
 Bayley Blower Co., Milwaukee, Wis.
 Beetle Plastics Corp., Carl N., Fall River, Mass. (Plastic)
 Brundage Co., Kalamazoo, Mich.
 Carolina Blower Co., Inc., Greensboro, N. C.
 Champion Blower & Forge Co., Lancaster, Pa.
 Chicago Blower Corp., Franklin Park, Ill.
 Clarage Fan Co., Kalamazoo, Mich.
 Connecticut Blower Co., Hartford, Conn.
 Denbo Engineering and Sales Co., Inc., Indianapolis, Ind. (Plastic)
 Gaffers & Sattler, Los Angeles, Calif.
 Garden City Fan & Blower Co., Niles, Mich.
 General Blower Co., Subsidiary of Ilg Electric Ventilating Co.,
 Morton Grove, Ill.
 Jan-Air, Inc., Richmond, Ill.
 Lau Blower Co., Dayton, Ohio.
 Mamco Corp., Racine, Wis.
 Martin Fan & Blower Co., Chicago, Ill.
 Mayne Products Co., Dayton, Ohio.
 Moore Co., Marceline, Mo.
 Morrison Products, Inc., Cleveland, Ohio.
 Peerless Electric Div., H. K. Porter Co., Warren, Ohio.
 R & R Metal Products, Inc., Chicago, Ill.
 Revcor Inc., Carpentersville, Ill.
 Robinson Ventilating Co., Zelenople, Pa.
 Torrington Mfg. Co., Torrington, Conn.
 Triangle Mfg. Co., Oshkosh, Wis.
 U.S. Air Conditioning Corp., Delaware, O.
 Utility Fan Corp., Div. of Utility Appliance Corp., Los Angeles,
 Calif.
 Vernco Corp., Columbus, Ind.
 Viking Air Products Div. of The Lau Blower Co., Cleve-
 land, O.
 Western Blower Co., Seattle, Wash.
 Westinghouse Electric Corp., Sturtevant Div., Boston, Mass.

WINDOW AIR CONDITIONER COVERS

See Protectors, Window Air Conditioner

WINDOW COOLING UNITS

See Unitary Air Conditioners, Summer, Self-Contained, Window Type

WINDOW PANELS FOR AIR CONDITIONERS

See Panels, Window Air Conditioner

WINDOWS, METAL, HOLLOW OR EXTRUDED

Adams Co., Dubuque, Iowa.
 Alumatic Corp. of America, Milwaukee, Wis.
 Fenestra Inc., Detroit, Mich.
 General Bronze Corp., Garden City, L. I., N. Y.
 Inland Steel Products Co., Milwaukee, Wis. (Basement win-
 dows)
 International Steel Co., Evansville, Ind.
 Jamestown Metal Corp., Jamestown, N. Y.
 Kawneer Co., Niles, Mich.
 New Monarch Machine & Stamping Co., Des Moines, Ia.
 Perkinson, William J., Chicago, Ill.
 Republic Steel Corp., Cleveland, O.
 Reynolds Metals Co., Richmond, Va.
 Rusco Div. of F. C. Russell Co., Pandora, O.
 Steelcraft Mfg. Co., Rossmore, O.
 Truscon Div., Republic Steel Corp., Youngstown, O.

WINTER AIR CONDITIONERS

See Furnaces, Forced Warm Air

WINTER PROTECTIVE COMPOUNDS

See Compounds, Winter Protective, Pump

WIRE

Allegheny Ludlum Steel Corp., Pittsburgh, Pa. (Stainless)
 Aluminum Co. of America, Pittsburgh, Pa. (Aluminum)
 American Steel & Wire Div., U. S. Steel Corp., Cleveland,
 Ohio. (Steel)
 Anaconda American Brass Co., Waterbury, Conn. (Copper)
 Armco Steel Corp., Middletown, Ohio. (Stainless steel)
 Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y. (Lead,
 tin, cadmium, zinc)
 Berger Div., Republic Steel Corp., Canton, Ohio. (Galvanized
 and black)
 Bethlehem Steel Co., Bethlehem, Pa. (Plain, galvanized, steel and
 black)
 Chase Brass & Copper Co., Inc., Waterbury, Conn. (Copper)
 Copperweld Steel Co., Wire and Cable Div., Glassport, Pa. (Cop-
 per covered steel)
 Crucible Steel Co. of America, Pittsburgh, Pa. (Stainless steel and
 titanium)
 Division Lead Co., Summit, Ill. (Lead, tin)
 Hussey & Co., C. G., Pittsburgh, Pa. (Copper)
 International Nickel Co., Inc., New York, N. Y. (Nickel & nickel
 alloys)
 Jones & Laughlin Steel Corp., Pittsburgh, Pa. (Steel)
 Jones & Laughlin Steel Corp., Stainless and Strip Div., Detroit,
 Mich.
 Kaiser Aluminum & Chemical Sales, Inc., Oakland, Calif. (Alu-
 minum)
 Laclede Steel Co., St. Louis, Mo. (Steel)
 National Lead Co., New York, N. Y. (Lead & tin)
 Nichols Wire & Aluminum Co., Davenport, Ia. (Aluminum)
 Page Steel & Wire Div., American Chain & Cable Co., Inc.,
 Monessen, Pa. (Carbon steel & stainless steel)
 Republic Steel Corp., Cleveland, Ohio (Steel)
 Reynolds Metals Co., Richmond, Va. (Aluminum)
 Tennessee Coal & Iron Div., U. S. Steel Corp., Fairfield, Ala.
 (Steel)
 Texas Instruments Inc., Metals & Controls Div., Attleboro, Mass.
 United Wire & Supply Corp., Providence, R. I. (Aluminum,
 copper & copper base alloy)
 Youngstown Sheet & Tube Co., Youngstown, Ohio. (Steel)

WIRE, ELECTRIC HEATING

See Cable, Electric Heating

WIRE GLASS

See Glass, Wire

WIRING MACHINES

See Machines, Wiring

YEAR 'ROUND UNITS

See Unitary Air Conditioners, Year 'Round

ZONE CONTROLS

See Controls; Control System Kits

Section of

American Artisan

1961 DIRECTORY OF WARM AIR HEATING, RESIDENTIAL AIR CONDITIONING AND SHEET METAL PRODUCTS

[PART 3—ALL TRADE NAMES]

A

AAF—Air Filters. American Air Filter Co., Inc., Louisville, Ky.
ABC—Blower-Washer Units. American Blower Corp., Detroit, Mich.
ABC—Oil Burners. Automatic Burner Corp., Chicago, Ill.
ACB—Metal Protecting Paint. Tropical Paint Co., Cleveland, Ohio.
A-C Board—Non-Metallic Sheets. Philip Carey Mfg. Co., Cincinnati, Ohio
AM—Solder. Alpha Metals, Inc., Jersey City, N. J.
A&R—Duct Dampers, Louvers and Shutters. Air & Refrigeration Corp., New York, N. Y.
ASMC—Flux. Farrelloy Co., Philadelphia, Pa.
atc—Relays, Switches, and Welding Timers. Automatic Timing & Controls, Inc., King of Prussia, Pa.
AW—Plates, Sheets. Alan Wood Steel Co., Conshohocken, Pa.
AX—Oil Burners. Aldrich Co., Wyoming, Ill.
Abrams—Furnace Brushes. Worcester Brush & Scraper Co., Div. Mason Worcester Brush Co., Worcester, Mass.
Abr-A-Saw—Sheet Metal Saws. Collins Machinery Corp., Monterey Park, Calif.
Abso-Dry—Refrigerant Dehydrator. Henry Valve Co., Melrose Park, Ill.
Absolute—Filters. Cambridge Filter Corp., Syracuse, N. Y.
Academy—Heating and Ventilating Systems for Classrooms. Williams Furnace Co., Buena Park, Calif.
Ace—Damper Regulators. Martens & Stormoen Co., West Quincy, Mass.
Acid-Proof—Insulating Cement. Quigley Co., New York, N.Y.
Acousti-duct—Sound Absorbers for Duct Sections. General Sound Control, Inc., Los Angeles, Calif.
Acratherm—Thermostats. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Acro—Controls. Robertshaw-Fulton Controls Co., Richmond, Va.
Actane—Gas Water Heaters. M. M. Hedges Mfg. Co., Inc., Chattanooga, Tenn.
Adacast—Refractories. Botfield Refractories Co., Philadelphia, Pa.
Adamant—Insulating Cement. Refractories. Botfield Refractories Co., Philadelphia, Pa.
Adapatch—Refractories. Botfield Refractories Co., Philadelphia, Pa.
Adapto—Gas and Oil Furnaces. Mammoth Industries Inc., Minneapolis.
Adapto—Ignition Transformers. Thermolok Mfg. Co., Inc., Franklin Sq., L.I., N.Y.
Adaptomatic—Air Conditioning Units. Fedders Corp., Maspeth, N. Y.
Ada-Stic—Insulating Cement. Botfield Refractories Co., Philadelphia, Pa.
Adheco—Adhesive Tape for Sealing

Duct Joints and Protective Paper for Polished Metal Surfaces. Adhesive Tape Corp., Brooklyn, N. Y.
Adjusta-Duct—Ducts and Duct Accessories. Duc-Pac Inc., East Longmeadow, Mass.
Aerocor—Furnace Insulation. Owens-Corning Fiberglas Corp., New York, N. Y.
Aerofil—Filters. Besser Furnace and Air Conditioning Corp., Charlotte, N.C.
Aerofuse—Air Diffusers. Tuttle & Bailey Div. of Allied Thermal Corp., New Britain, Conn.
Aerolux—Oil Furnaces. S. T. Johnson Co., Oakland, Calif.
Aeromaster—Fans. Koppers Co., Inc., Metal Products Div., Baltimore, Md.
Aeromatic—Roof Ventilators. Octagon Ventilator Mfg. Co., Jackson, Tenn.
Aeropel—Kitchen Exhaust Fans, American-Standard Industrial Div., Detroit, Mich.
Aeroplane—Ventilators. Paul R. Jordan & Co., Inc., Indianapolis, Ind.
Aeropull—Ventilators. Paul R. Jordan & Co., Inc., Indianapolis, Ind.
Aerosolve—Filters. Cambridge Filter Corp., Syracuse, N. Y.
Aerotube—Insulation. Johns-Manville, New York, N. Y.
Aerovane—Anemometers. Friez Instrument Div., Bendix Aviation Corp., Baltimore, Md.
Aerovane—Grilles, Registers. Tuttle & Bailey Div. of Allied Thermal Corp., New Britain, Conn.
Aertite—Furnace Cement, Waterproofing. Johns-Manville, New York, N. Y.
Aerylite—Plastic Panels. Wasco Products, Inc., Cambridge, Mass.
Afco—Blowers, Gas and Oil Burners, Furnaces, Air Conditioning Units. American Furnace Co., St. Louis, Mo.
Afco Comfortmaker—Electric Furnaces, Unitary Air Conditioners. American Furnace Co., St. Louis, Mo.
Afco Duo Blo—Furnaces. American Furnace Co., St. Louis, Mo.
Afco Master-Gas—Furnaces. American Furnace Co., St. Louis, Mo.
Afco Oil Master—Furnaces. American Furnace Co., St. Louis, Mo.
Afco—Fire Dampers, Louvers. American Foundry & Furnace Co., Bloomington, Ill.
Agilene—Plastic Ducts, Metal Protective Coating. American Agile Corp., Bedford, Ohio.
Agitair—Air Diffusers, Filters, Registers and Grilles, Ventilators, Sound and Volume Control Mixing Units for Air Conditioning Systems. Air Devices Inc., New York, N.Y.
Air Ace—Pneumatic Hammers. Dotmar Industries, Inc., Kalamazoo, Mich.
Aircoustic—Insulation. Johns-Manville, New York, N.Y.

Aircap—Ventilators. Penn Ventilator Co. Inc., Philadelphia, Pa.
Airco—Flux, Welding Rod, Torches and Welding Equipment. Air Reduction Sales Co., New York, N.Y.
Air-Con—Registers. Register & Grille Mfg. Co., Inc., Brooklyn, N. Y.
Aircon—Condensers. McQuay, Inc., Minneapolis, Minn.
Air-Con—Water Conditioners. American Sand-Banum Co., Inc., Merrick, N. Y.
Air Control—Air Conditioning Units, Coils. Hastings Air Conditioning Co., Inc., Hastings, Nebr.
Air Controls—Ridge Ventilator. Plasteel Products Co., Washington, Pa.
Air-Cote—Insulation. Spray-Flake Co., Chicago, Ill.
Aircoustat—Sound Absorbers. Koppers Co., Inc., Metal Products Div., Baltimore, Md.
Airditioner—Air Conditioning Units. Modine Mfg. Co., Racine, Wis.
Airdome—Roof Ventilators. Wasco Products, Inc., Cambridge, Mass.
Air-Ease—Furnaces. Johnson Furnace Co., Cleveland, O.
Airefiner—Water Conditioners, Cleaning Compounds. Oakite Products, Inc., New York, N. Y.
Aireflo—Blower-Filters, Furnaces. Lennox Industries Inc., Marshalltown, Iowa.
AIRRefrigeration—Condensers, Condensing Units and Air Conditioning Units The Williamson Co., Cincinnati, O.
Air-Lok—Water Heaters. Bastian-Morley Co., Inc., La Porte, Ind.
Aire-RAY-ator—Furnaces. Ray Oil Burner Co., San Francisco, Calif.
Airette—Ventilators and Fans. Penn Ventilator Co. Inc., Philadelphia, Pa.
Airex—Evaporative Coolers, Ventilators, Blowers, Fans, Washers. Mountain States Equipment Co., Denver, Colo.
Air Extractor—Duct Dampers. A-J Mfg Co., Kansas City, Mo.
Airfeedrill—Pneumatic Drills. Gardner Denver Co., Quincy, Ill.
Airflo—Duct Accessories. Inland Steel Products Co., Milwaukee, Wis.
Air-Flo—Louvers and Dampers. Air Conditioning Products Co., Detroit, Mich.
Airfoil—Fans, Fan Blades, Ventilators. Aerovent Fan Co., Piqua, Ohio.
Airfoil—Grilles, Louvers, Registers, Diffusers. Titus Mfg. Corp., Waterloo, Iowa.
Air Guide—Duct Vanes. Titus Mfg Corp., Waterloo, Iowa.
Air-In—Roof Ventilators. Octagon Ventilator Mfg. Co., Jackson, Tenn.
Airstocrat—Fan Blades. Torrington Mfg. Co., Torrington, Conn.
Airstector—Ventilators. Swartwout Fabricators, Inc., Kokomo, Ind.
Air-Jet—Gas Vents. General Products Co., Fredericksburg, Va.

Air-Lift—Blowers and Fans. Mauer Engineering, Evanston, Ill.
Airlift—Ventilators. Swartwout Fabricators, Inc., Kokomo, Ind.
Air-line—Baseboard Diffusers. Del Wellcome Engineering Co., Clarendon Hills, Ill.
Airliner—Fan Blades. Russell Coil Co., Santa Fe Springs, Calif.
Airlouver—Louvers. Swartwout Fabricators, Inc., Kokomo, Ind.
Airmaster—Dehumidifiers. Walter Haertel Co., Minneapolis, Minn.
Air Master—Air Diffusers and Registers. Austin Engineering & Mfg. Co., Inc., Ysleta, Tex.
Airmat—Throwaway Filters. Aigard Mfg. Co., Chicago, Ill.
Air-Mat—Dust Collectors, Filters. American Air Filter Co., Inc., Louisville, Ky.
Air-Mat Arrester—Dust Collectors. American Air Filter Co., Inc., Louisville, Ky.
Air Mate—Diffusers, Registers and Grilles. Dry Mfg. Co., Winters, Tex.
Air-Max—Dampers, Diffusers and Fans. Gallaher Co., Omaha, Nebr.
Air Meter—Anemometers. Hastings-Raydist, Inc., Hampton, Va.
Airmover—Ventilators. Swartwout Fabricators, Inc., Kokomo, Ind.
AirMpelor—Blowers and Blower Wheels, Fans, Roof Ventilators. Ammerman Co., Inc., Stillwater, Minn.
Airo-Flex—Directional Flow Registers. Auer Register Co., Cleveland, Ohio.
Airoflo—Power Roof Exhauster. Arden Airoflo Engineering, Inc., El Monte, Calif.
Air O Fresh—Air Sterilizers. Melco Products, Inc., Minneapolis, Minn.
Air-O-Matic—Air Conditioning Units. Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
Airotor—Blower Wheels. Torrington Mfg. Co., Torrington, Conn.
Air-Out—Ventilator. Accurate Sheet Metal & Mfg. Works, Chicago, Ill.
Air-Out Ventilators—Vent Caps. Accurate Sheet Metal & Mfg. Works, Chicago, Ill.
Airphlo—Roof Ventilators. Octagon Ventilator Mfg. Co., Jackson, Tenn.
Air Power—Ventilators. Martin Fan & Blower Co., Chicago, Ill.
Air Prover—Controls. A-P Controls Div., Controls Co. of America, Milwaukee, Wis.
Airpure—Submicron Particulate Filters. Flanders Filters, Inc., Riverhead, L.I., N.Y.
Air-Rad—Air Conditioning Units. Penn Boiler Div. Pebbco Industries Inc., Lancaster, Pa.
Airsan—Wire Cloth Filters. Air Filter Corp., Milwaukee, Wis.
Air Seal—Air Filters. Master Products Co., Chicago, Ill.
Air-Seel—Oil Burners. Caloril Burner Corp., Hartford, Conn.
Air Set—Combustion Chambers. Harvey, Inc., Sid, Valley Stream, N. Y.
Airstat—Controls. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Air-Tite—Adhesive Tape for Ducts. Elgen Mfg. Corp., Long Island City, N. Y.
Air-Trim—Baseboard Diffusers. Vulcan Radiator Co., Hartford, Conn.
Airtrol—Furnaces. Holly-General Co., Pasadena, Calif.
Air Tumbler—Air Scrubbers for Fume Removal, Dust Collectors. Dust Suppression & Engineering Co., Lake Orion, Mich.

Airturn—Vanes. Barber-Colman Co., Rockford, Ill.
Air-Vane—Registers. Rock Island Register Co., Rock Island, Ill.
Air-Vent—Roofing Felt. Ruberoid Co., New York, N.Y.
Air Wall—Furnaces, Registers. General Electric Co., Air Conditioning Dept., Tyler, Tex.
Air-X-Hauser—Chimney Caps. Ventilators. G. C. Breidert Co., San Fernando, Calif.
Air-X-It—Ventilators. Octagon Ventilator Mfg. Co., Jackson, Tenn.
AirXpelor—Chimney Caps and Tops, Exhausters, Fans, Blowers and Ventilators, Blower and Fan Housings, Blower Wheels. Ammerman Co., Inc., Stillwater, Minn.
Aktiv—Cleaning Compound. Turco Products, Inc., Los Angeles, Calif.
Alclad—Sheets. Aluminum Company of America, Pittsburgh, Pa.
Alco—Ventilators. A. H. Lumm Co., Toledo, Ohio
Alcoa—Aluminum Products. Aluminum Co. of America, Pittsburgh, Pa.
Alcuplate—Metal Sheets. Texas Instruments Inc., Metals & Controls Div., Attleboro, Mass.
Alfol-Asbestos—Duct Insulation. Reflectal Corp., Subsidiary Borg-Warner Corp., Chicago, Ill.
Aliron—Metal Sheets. Texas Instruments Inc., Metals & Controls Div., Attleboro, Mass.
Allegheny Metal—Stainless. Allegheny Ludlum Steel Corp., Pittsburgh, Pa.
Allen—Fans. Park Heating Specialties, Minneapolis, Minn.
Allen-Flux—Soldering Flux. L. B. Allen Co., Inc., Chicago, Ill.
All-Saw—Electric Saws. Wen Products Inc., Chicago, Ill.
All-Tite—Vane Rails for Ducts. Elgen Mfg. Corp., Long Island City, N.Y.
All-Weather—Motors. Robbins & Myers, Inc., Springfield, O.
Alma—Furnace Brushes. Worcester Brush & Scraper Co., Div. Mason Worcester Brush Co., Worcester, Mass.
Almar—Hand Slitting Machines, Power Flanging Machines. Ward Machinery Co., Chicago, Ill.
Alnifer—Metal Sheets. Texas Instruments Inc., Metals & Controls Div., Attleboro, Mass.
Alnor—Thermometers. Illinois Testing Laboratories, Inc., Chicago, Ill.
Alodine—Aluminum surface treatment. Amchem Products, Inc., Ambler, Pa.
Alpine—Evaporative Coolers. International Metal Products Div., McGraw-Edison Co., Phoenix, Ariz.
Alsiplate—Metal Sheets. Texas Instruments Inc., Metals & Controls Div., Attleboro, Mass.
Alumar—Welding Rod. Arcos Corp., Philadelphia, Pa.
Alumaroll—Metal Awnings. Wagner Awning & Mfg. Co., Cleveland, Ohio.
Alumattic—Louvers and Shutters. Phil Rich Fan Mfg. Co., Houston, Tex.
Alumaweld—Flux and Solder. Johnson Mfg. Co., Inc., Mount Vernon, Iowa.
Alumbrite—Paint. Thompson & Co., Oakmont, Pa.
Alumend—Welding Rod. Arcos Corp., Philadelphia, Pa.
Alumi-Flux—Soldering Flux. L. B. Allen Co., Inc., Chicago, Ill.
Alumilux—Water Heaters. Clayton & Lambert Mfg. Co., Louisville, Ky.
Aluminu—Metal Cleaner. NuSteel Co., Chicago, Ill.
Aluminum-Champ—Roof Flashings. Ludlow Papers, A Division of Ludlow

Corp., Needham Heights, Mass.
Alumiprep—Metal Cleaners. Neilson Chemical Co., Detroit, Mich.
Alumi-Soder—Aluminum Solder. L. B. Allen Co., Inc., Chicago, Ill.
A-LUM-O-Aire—Filters. Carey Electronic Engineering Co., Metal Wool Div., Springfield, Ohio.
Alumseal—Prefabricated Flashings. Wasco Flashing Co., Cambridge, Mass.
Amballoy—Stainless Steel Plates. A. M. Byers Co., Pittsburgh, Pa.
Amco—Cabinets. Atlas Mfg. Co., St. Paul, Minn.
Amco—Solder and Flux. American Solder & Flux Co., Philadelphia, Pa.
Amcoil—Air Conditioners. American Coils, Inc., Newark, N. J.
Amer-Clone—Dust Collectors. American Air Filter Co., Inc., Louisville, Ky.
Amer-glas—Air Filters. American Air Filter Co., Inc., Louisville, Ky.
Amer-glas—Throwaway Filters. Metal Industries, Inc., Clearwater, Fla.
American—Furnaces. Ryniker Steel Products Co., Billings, Mont.
American—Humidity and Temperature Recorders, Thermometers. Manning, Maxwell and Moore, Inc., Stratford, Conn.
American—Water Heaters. Hotstream Heater Co., Cleveland, Ohio.
American HV—Filters. American Air Filter Co., Inc., Louisville, Ky.
American—Furnaces. Livingston, Inc., Marshall, Mich.
American Beauty—Soldering Iron. American Electrical Heater Co., Detroit, Mich.
Amerivent—Prefabricated Chimneys, Pipe and Fittings. American Metal Products, Los Angeles, Calif.
Amerjet—Blow Pipe Collectors. American Air Filter Co., Inc., Louisville, Ky.
Aminco—Hygrometers, Relays, Thermostats. Hygro-dynamics, Inc., Silver Spring, Md.
Ampcoflex—Non-Metallic Duct, Plastic Sheets. Atlas Mineral Products Co., Mertztown, Pa.
Amprobe—Voltmeter-Ammeter. Pyramid Instrument Corp., Lynbrook, L.I., N. Y.
Amweld—Grilles. American Welding & Mfg. Co., Building Products Div., Warren, O.
Anchor—Hangers. Royal-Apex Mfg. Corp., Brooklyn, N. Y.
Anchor—Conversion Burners. Stratton & Terstegge Co., Louisville, Ky.
AnchorAire—Furnaces. Anchor Div., Stratton & Terstegge Co., Inc., New Albany, Ind.
Anchorite—Nails. Dickson Weatherproof Nail Co., Evanston, Ill.
Andrite—Refrigerant Dehydrators. Ansul Chemical Co., Refrigeration Div., Marinette, Wis.
Anemotherm—Air Velocity Meters. Anemostat Corp. of America, New York, N.Y.
Angle-Chek—Inspection Tool for Sheet Metal Workers. Sheridan-Gray, Inc., Palos Verdes Estates, Calif.
Apexo—Roof Flashing. Simplex Mfg. Co., Fond du Lac, Wis.
Aprilaire—Humidifiers. Research Products Corp., Madison, Wis.
Apthorp—Oil Burner Nozzles. Boston Machine Works Co., Lynn, Mass.
Aqua-Aire—Furnace Humidifiers. B & D Enterprises, Inc., Madison, Wis.
Aquabar—Roof Cement. Continental Products Co., Euclid, Ohio.
Aqua-Clear—Rust Preventive. Sudbury Laboratory, Sudbury, Mass.

AquaCooler—Cooling Towers. The Marley Co., Kansas City, Mo.
Aquadam—Roof Cement, Waterproofing. Blue Ridge Talc Co., Inc., Henry, Va.
Aquadam—Roofing Felt. Johns-Manville, New York, N. Y.
Aqualene—Water Conditioner. Lester Laboratories, Inc., Atlanta, Ga.
Aquamagic—Evaporative Furnace Humidifiers. Viking Air Products Div. of The Lau Blower Co., Cleveland, O.
Aqua Proof—Waterproofing, Roofing Paint. Metropolitan Refining Co., Inc., Long Island City, N. Y.
Aqua-Saver—Cooling Towers. Peerless Products Div., United Cooling Towers, Inc., North Little Rock, Ark.
Aqua-Scale—Automatic Humidifier. J. P. Glasby Mfg. Co., Bloomfield, N. J.
AquaSteel—Water Heaters. Hotstream Heater Co., Cleveland, O.
Aquatherm—Water Heater Controls. Modern Controls Corp., Centerline, Mich.
Aquatone—Water Conditioning Compounds. Ampion Corp., Long Island City, N. Y.
Aquatower—Cooling Towers. The Marley Co., Kansas City, Mo.
Aquilux—Water Heaters. S. T. Johnson Co., Oakland, Calif.
Arc-Eng—Air Conditioning Registers. Register & Grille Mfg. Co., Inc., Brooklyn, N. Y.
Arcoglas—Water Heaters. American Radiator & Standard Sanitary Corp., Plumbing and Heating Div., New York, N. Y.
Arcosite—Flux. Arcos Corp., Philadelphia, Pa.
Arcosteel—Water Heaters. American Radiator & Standard Sanitary Corp., Plumbing and Heating Div., New York, N. Y.
Arctic Circle—Evaporative Coolers. International Metal Products Div., McGraw-Edison Co., Phoenix, Ariz.
Ardox—Nails. Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Arex-Autor—Ventilators. Arex Co., Chicago, Ill.
Arid-Air—Dehumidifiers. Tamms Industries Co., Chicago, Ill.
Arin—Dampers. Arex Co., Chicago, Ill.
Arin Accelerator—Louvers and Shutters. Arex Co., Chicago, Ill.
Arin Stationary—Louvers and Shutters. Arex Co., Chicago, Ill.
Aristocrat—Nylon Diffusers, Grilles and Registers. Airguide Plastics Corp., Miami, Fla.
Arkla-Servel—Air Conditioning Unit. Arkla Air Conditioning Corp., Little Rock, Ark.
Armalflex—Insulation. Armstrong Cork Co., Lancaster, Pa.
Armorize—Paint. Carter Paint Co., Inc., Liberty, Ind.
Armorweave—Metal Sheets. United States Gypsum Co., Chicago, Ill.
Armstrong—Compressors. General Machinery Co., Spokane, Wash.
Arrow—Furnaces. Dowagiac Steel Furnace Co., Dowagiac, Mich.
Arrowtrol—Registers. Register & Grille Mfg. Co., Inc., Brooklyn, N. Y.
Artic—Refrigerants. E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.
ASARCO—Sheets and Roofing. American Smelting and Refining Co., Federated Metals Div., New York, N. Y.
Asbestile—Roof Cement, Flashings. Johns-Manville, New York, N. Y.
Asbestite—Paint. Coopers Creek Chemical Corp., West Conshohocken, Pa.
Asbestocel—Furnace Insulation. Johns-Manville, New York, N. Y.

Asbestolux—Asbestos Duct Insulation. North American Asbestos Corp., Chicago, Ill.
Asco—Relays, Switches, Valves. Automatic Switch Co., Florham Park, N. J.
Asco—Gutter Fittings and Accessories, Roof Flashings. Atchison Specialty Mfg. Co., Atchison, Kans.
Ashcraft—Pressure Gages. Manning, Maxwell & Moore, Inc., Stratford, Conn.
Ash Pit—Gas Burner. Handley-Brown Co., Jackson, Mich.
At-A-Glance—Oil Tank Gauge. Krueger Sentry Gauge Co., Green Bay, Wis.
Atcotran—Controls. Automatic Timing & Controls, Inc., King of Prussia, Pa.
Atcotrol—Controls. Automatic Timing & Controls, Inc., King of Prussia, Pa.
Atlas—Blowers, Direct Fired Heaters, Furnaces. Tuck-Aire Furnace Co., San Francisco, Calif.
Atlas—Diffusers, Grilles, Registers. J. B. Smith Co., Philadelphia, Pa.
Atomick—Nozzles, Humidifiers. Maid-O'-Mist, Inc., Chicago, Ill.
Atomist—Humidifiers. American Foundry & Furnace Co., Bloomington, Ill.
Attic-Air—Fans. Acme Engineering & Mfg. Corp., Muskogee, Okla.
Atti-Cooler—Fans. Damp-Vent Co., Bettendorf, Ia.
Attifan—Fans. Kool Air Engineering Co., San Bernardino, Calif.
Auditec—Refrigerant Leak Detectors. John Ould (USA) Ltd., Mt. Vernon, N. Y.
Auto—Humidifier Valves. Maid-O'-Mist, Inc., Chicago, Ill.
Auto-Balance—Damper Systems for Furnace Plenums. Rheem Mfg. Co., Chicago, Ill.
Auto Draft—Blowers. Tjernlund Mfg. Co., St. Paul, Minn.
Auto-Klean—Fuel Oil Filters. Cuno Engineering Corp., Meriden, Conn.
Automatic Housekeeper—Electronic Air Cleaners. Trion, Inc., McKees Rocks, Pa.
Automaze—Air Filters. Air-Maze Corp., Cleveland, O.
Autostart—Buffers. U. S. Electrical Motors, Inc., Los Angeles, Calif.
Axiflo—Fans. Westinghouse Electric Corp., Surtivant Div., Boston, Mass.
Axivane—Blowers and Fans. Joy Mfg. Co., Pittsburgh, Pa.

B

B-60—Controls. General Controls Co., Glendale, Calif.
BAC—Air Conditioning Unit. Brunner Div. of Dunham-Bush Inc., Utica, N. Y.
B.A.C.—Condensers, Cooling Towers. Baltimore Aircoil Co., Baltimore, Md.
BB—Blast Gates, Roof Clips, Damper Clips and Tips, Conductor Fittings and Accessories, Snow Guards. Berger Brothers Co., Philadelphia, Pa.
B&B—Louvers & Shutters, Blower Wheels. Bishop & Babcock Mfg. Co., Cleveland, Ohio.
B-H Soundliner—Duct Insulation. Baldwin-Ehret-Hill, Inc., Trenton, N. J.
BNCO—Cabinets and Casings, Dust Collectors, Skylight Lifts, Louvers and Shutters, Metal Partitions. Biersach & Neidermeyer Co., Milwaukee, Wis.
B-N Multi-stage—Oil Burners, Oil Furnaces. Benner-Nawman, Inc., Oakland, Calif.
BTU—Furnace Cement. Philip Carey Mfg. Co., Cincinnati, Ohio.
BVI—Humidifiers. Burgess Vibrocrafters, Inc., Grayslake, Ill.

B & W—Combustion Chambers, Refractories. Babcock & Wilcox Co., New York, N. Y.
BX—Oil Burners. Aldrich Co., Wyoming, Ill.
Badger—Time Switches. Reliance Automatic Lighting Co., Racine, Wis.
Baffle Mix—Refractories. Walsh Refractories Corp., St. Louis, Mo.
Bakelite—Plastics, Powders and Resins. Union Carbide Plastics Co., Div. of Union Carbide Corp., New York, N. Y.
Balanstat—Ceiling Diffusers. Lenly Mfg. Co., Inc., Los Angeles, Calif.
Ball Flame—Oil Burners. Kresno-Stamm Mfg. Co., Palisades Park, N. J.
Ball-O-Matic—Damper Hardware. Elgen Mfg. Corp., Long Island City, N. Y.
Balsam-Wool—Flexible Insulation. Wood Conversion Co., St. Paul, Minn.
Bankheat—Oil Burners. S. T. Johnson Co., Oakland, Calif.
Banox—Winter Protective Compounds for Pumps. Calgon Co., Div. of Hagan Chemicals & Controls, Inc., Pittsburgh, Pa.
Bantam—Electric Drills, Motors. Small Motors, Inc., Chicago, Ill.
Bantam Bully—Air Hammer. Superior Pneumatic & Mfg., Inc., Cleveland, Ohio.
Bar-Ox—Rust Inhibitor. Truscon Laboratories, Detroit, Mich.
Bar Rust—Metal Protecting Paints. The Harrison Paint & Varnish Co., Midland Industrial Div., Canton, O.
Basa—Mallets. Greene, Tweed & Co., North Wales, Pa.
Basmor—Incinerators, Power Draft Units, Furnaces and Water Heaters. Bastian-Morley Co., Inc., LaPorte, Ind.
Beckett Commodore—Oil Burners. R. W. Beckett Corp., Elyria, Ohio.
Beco—Controls. Better Engineered Controls, Los Angeles, Calif.
Bell-Ex—Roof Ventilators. New York Blower Co., Chicago, Ill.
Belmont Top—Vent Caps. William Wallace Co., Metalbestos Div., Belmont, Calif.
Beloit—Sheet Metal Machines, Punches. Hendley & Whittemore Co., Beloit, Wis.
Bemis—Furnace Brushes. Worcester Brush & Scraper Co., Worcester, Mass.
Bendall—Shape Forming Machine. Engel Sheet Metal Equipment, Inc., St. Louis, Mo.
Benda-Vane—Registers. Rock Island Register Co., Rock Island, Ill.
Benefactor—Furnaces. The Hess Co., Chicago, Ill.
Benefire—Metal Fireplaces. Bennett-Ireland, Inc., Norwich, N. Y.
Beneform—Draft Dampers for Fireplaces. Bennett-Ireland, Inc., Norwich, N. Y.
Berger—Gutter Accessories, Metal Lockers, Rooftrim. Republic Steel Corp., Cleveland, O.
Berloy—Building Products. Berger Mfg. Co., Div. Republic Steel Corp., Canton, Ohio.
Bernz—Torches. American Products Corp., Chicago, Ill.
Best-Yet—Gutter Hangers. Accurate Sheet Metal & Mfg. Works, Chicago, Ill.
Bethcon—Galvanized Sheets. Bethlehem Steel Co., Bethlehem, Pa.
Beth-Co-Loy—Sheets. Bethlehem Steel Co., Bethlehem, Pa.
Better-Bilt—Furnaces. Barnes Heating & Ventilating Co., Long Beach, Calif.
Bett-Marr—Sheet Metal Cutting Band Saw. Lockformer Co., Chicago, Ill.

Bifurcator—Blowers. DeBothezat Fans Div. American Machine and Metals, Inc., East Moline, Ill.

Big Bully—Air Hammers. Superior Pneumatic & Mfg., Inc., Cleveland, Ohio.

Billy Penn—Chimney Caps, Gutter and Accessories, Metal Duct, Roof Flashings, Ridge Roll, Mouldings and Trim, Furnace Pipe and Fittings, Ventilators. Penn Supply & Metal Corp., Philadelphia, Pa.

Bitumastic—Paint. Koppers Co., Inc., Pittsburgh, Pa.

Bituscal—Paint. Cheesman-Elliott Co., Inc., Brooklyn, N.Y.

Black Arrow—Fans, Spray Guns. Black Mfg. Co. Div., Alexander Milburn, Inc., Baltimore, Md.

Black Flash—Roof Cement. J. C. Whitlam Mfg. Co., Wadsworth, O.

Black Lap—Roof Cement. Philip Carey Mfg. Co., Cincinnati, Ohio.

Blakite—Insulating Cement. Johns-Manville, New York, N.Y.

Blakote—Roofing Paint. Arco Co., Cleveland, O.

Blazcrete—Refractories. Johns-Manville, New York, N.Y.

Blend Air—Diffusers, Ducts and Duct Fittings, Small Pipe Heating Systems, Unitary Air Conditioners. Coleman Co., Inc., Wichita, Kans.

Blo-Aire—Blower-Filter Units. Meyer Furnace Co., Peoria, Ill.

Bloksitk—Insulation Adhesives. Forty-Eight Insulations, Inc., Aurora, Ill.

Blowette—Blower-Filter Units. Lau Blower Co., Dayton, Ohio.

Blu-Cold—Compressors. Lehigh Mfg. Co., Div. of Lehigh, Inc., Easton, Pa.

Blue Bird—Shears. Bergman Tool Mfg. Co., Inc., Buffalo, N.Y.

Bluebonnet—Air Conditioning Units. Forston Co., Houston, Tex.

Blue-Point—Drills. Snap-on Tools Corp., Kenosha, Wis.

Blue Ribbon—Furnaces. Thatcher Furnace Co., Garwood, N.J.

Blue Ring—Conversion Gas Burners. Niagara Motors Corp., Dunkirk, N.Y.

Blue Streak—Refrigerant Dehydrators. Wabash Corp., Chicago, Ill.

Blue-Flame—Gas Unit Heaters. Vacuum Gas Burner Co., Olean, N.Y.

Blu-Flex—Hack Saw Blades. Millers Falls Co., Greenfield, Mass.

Blu-Mol—Hack Saw Blades. Millers Falls Co., Greenfield, Mass.

Bobby—Float Valves for Humidifiers. Robert Mfg. Co., Los Angeles, Calif.

Bo' Cat—Hand and Power Hoists. Ohio Hoist Mfg. Co., Inc., Lisbon, O.

Boltaron—Plastic Sheets. General Tire and Rubber Co., Bolta Products Div., Lawrence, Mass.

Bon-Air—Furnace Humidifiers. Arklon Products Co., Cleveland, O.

Bondmaster—Adhesives. Rubber and Asbestos Corp., Bloomfield, N.J.

Bondwich—Metal Sheets. Texas Instruments Inc., Metals & Controls Div., Attleboro, Mass.

Boston Breese—Oil Burners. Boston Machine Works Co., Lynn, Mass.

Boston Chrome Steel—Baffles. Boston Machine Works Co., Lynn, Mass.

Boyer—Power Hammers, Rivet Guns. Chicago Pneumatic Tool Co., New York, N.Y.

Bradford—Water Heaters. Pennsylvania—Bradford Appliance Corp., Philadelphia, Pa.

Brassweld—Steel Brazing Flux. Rexarc, Inc., Sight Feed Generator Div., West Alexandria, Ohio.

Brazaloy—Aluminum, cast iron, copper, magnesium and silver soldering flux.

All-State Welding Alloys Co., Inc., White Plains, N.Y.

Brazo—Bronze Soldering Flux. Linde Co., Div. Union Carbide Corp., New York, N.Y.

Breeze-Air—Fans. Buffalo Forge Co., Buffalo, N.Y.

Breeze—Air Filters. Barnebey-Cheney Co., Columbus, O.

Breezebuilder—Fans. Bar-Brook Mfg. Co., Inc., Shreveport, La.

Breeze Conditioning—Ventilators. American Cooler Corp., Jacksonville, Fla.

Breezmaster—Fans. Acme Engineering & Mfg. Corp., Muskogee, Okla.

Breeze—Kitchen Exhaust Fans. Buffalo Forge Co., Buffalo, N.Y.

Brenwood—Water Heaters. National Appliances, Inc., Pittsburgh, Pa.

Bressier—Draft Damper Motors. Kol-Master Corp., Oregon, Ill.

Brilliant—Paint. Calbar, Inc., Philadelphia, Pa.

Brilliant Fire—Furnaces. Ohio Foundry & Mfg. Co., Steubenville, Ohio.

Briquette—Water Conditioners. American Sand-Banum Co., Inc., Merrick, N.Y.

Brute-Kote—Metal Protective Coating. Klem Chemicals, Inc., Dearborn, Mich.

Bronco—Solder. Texas Instruments Inc., Metals & Controls Div., Attleboro, Mass.

Bronzoil—Bearings. Dodge Mfg. Corp., Mishawaka, Ind.

Bronzweld—Cast Iron Brazing Flux. Rexarc, Inc., Sight Feed Generator Div., West Alexandria, Ohio.

Brown Elektronik—Humidity and Temperature Recorders. Minneapolis-Honeywell Regulator Co., Minneapolis.

Brownskin-Vaporseal—Vapor Barriers. Ludlow Papers, A Division of Ludlow Corp., Needham Heights, Mass.

Brule—Incinerators. Guder Incinerator Corp., Blue Island, Ill.

BuiltInThinLine—Air Conditioning Units. General Electric Co., Major Appliance Div., Room Air Conditioner Dept., Louisville, Ky.

Bulldog—Snips and Shears. Wiss & Sons Co., Newark, N.J.

Bull Dog—Refrigerant Dehydrators. Refrigeration Research, Inc., Brighton, Mich.

Bundyweld—Tubing. Bundy Tubing Co., Detroit, Mich.

Burdco—Propeller Fan Blades. Russell Coil Co., Santa Fe Springs, Calif.

Burdett—Gas Burners. Illinois Iron & Bolt Co., Carpentersville, Ill.

Burflex—Propeller Fan Blades. Russell Coil Co., Santa Fe Springs, Calif.

Burnall—Incinerators. General Engineering Co., Bay City, Mich.

But-N-Hold—Sheet Metal Working Machine. Bar-Brook Mfg. Co., Inc., Shreveport, La.

Buzzer—Gas Soldering Furnaces, Soldering Torches. Charles A. Hones, Inc., Baldwin, N.Y.

Byloy—Plates. A. M. Byers Co., Pittsburgh, Pa.

C

C-10—High Temperature Paint. Laclede-Christy Clay Products Co., St. Louis, Mo.

CDC—Bearings and Pulleys. Chicago Die Casting Mfg. Co., Chicago, Ill.

Cem—Water Heaters. Bastian-Morley Co., Inc., La Porte, Ind.

CJB—Bearings. Ahlberg Bearing Co., Chicago, Ill.

C&L—Soldering Furnaces and Torches. Clayton & Lambert Mfg. Co., Louisville, Ky.

CM Puller—Cranes. Chisholm-Moore Hoist Div., Columbus McKinnon Chain Corp., Tonawanda, N.Y.

CP—Electric Tools, Hoists. Chicago Pneumatic Tool Co., New York, N.Y.

C/R—Metal Working Mallets. Chicago Rawhide Mfg. Co., Chicago, Ill.

CSCO—Paint. Chemical Solvent Co., Birmingham, Ala.

Caintape—Adhesive Tape for Sealing Duct Joints. Cain Mfg. Inc., Birmingham, Ala.

Calcode—Waterproofing. Calbar, Inc., Philadelphia, Pa.

Caldwell—Pneumatic Hammers. Burgess Thomas Co., Bloomfield, N.J.

Calva-flux—Flux. London Chemical Co., Melrose Park, Ill.

Campbell—Stokers. Illinois Iron & Bolt Co., Carpentersville, Ill.

Campcolite—Plastic Panels and Sheets. Campco Div., Chicago Molded Products Corp., Chicago, Ill.

Canopy Top—Truck Bodies. McCabe Power Auto Body Co., St. Louis, Mo.

Cant-Clog—Spray Nozzles. Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N.Y.

Capilator—Capillary Tubing for Refrigerants. Wolverine Tube Co., Div. of Calumet & Hecla, Inc., Allen Park, Mich.

Capillary—Air Conditioning Units, Washers, Filters. Air & Refrigeration Corp., New York, N.Y.

Capital—Furnaces. Farris Furnace Co., Springfield, Ill.

Capitolaire—Furnaces and Air Conditioning Units. Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.

Captain—Gas Water Heaters. Holly General Co., Pasadena, Calif.

Cara-Flux No. 400—Flux solution. Carajon Chemical Co., Inc., Fremont, Mich.

Carbolite—Soot Guns and Soot Remover. Ampion Corp., Long Island City, N.Y.

Carburetor-Stoker—Industrial Stokers. Woolley Eng. Co., Detroit, Mich.

Carex-CP5—Roof Cement. Philip Carey Mfg. Co., Cincinnati, Ohio.

Careyclad—Metal Protecting Paint. Philip Carey Mfg. Co., Cincinnati, Ohio.

Careymastic—Waterproofing. Philip Carey Mfg. Co., Cincinnati, O.

Carilloy—Plate. United States Steel Corp., Pittsburgh, Pa.

Carrene—Refrigerants. Carrier Corp., Syracuse, N.Y.

Castalu—Blower Wheels. R & R Metal Products, Inc., Chicago, Ill.

Castomatic—Solder. American Smelting and Refining Co., Federated Metals Div., New York, N.Y.

Cast-Refract—Baffles. Quigley Co., Inc., New York, N.Y.

Catalina—Furnaces. North Coast Mfg. Corp., Portland, Ore.

Catch-All—Refrigerant Dehydrators. Sporlan Valve Co., St. Louis, Mo.

Cathedral—Metal Sheets. United States Gypsum Co., Chicago, Ill.

Catomic—Combustion Heads. Quiet Automatic Burner Corp., Newark, N.J.

Caulk-N-Seal—Caulking Compound. Blue Ridge Talc Co., Inc., Henry, Va.

Caulk-O-Seal—Caulking and Glazing Compounds. Calbar, Inc., Philadelphia, Pa.

Cauxeal—Compounds. X-Pando Corp., Long Island City, N.Y.

Ce-Co—Caulking Compounds & Paints. Cheesman-Elliott Co., Inc., Brooklyn, N.Y.

Cecotite—Roofing Paint. Cheesman-Elliott Co., Inc., Brooklyn, N. Y.
Ceil-N-Ventor—Fans. Universal Blower Co., Birmingham, Mich.
Cemco—Controls. Columbus Electric Mfg. Co., Columbus, O.
Cementkote—Paint. Tropical Paint Co., Cleveland, Ohio.
Cemesto—Curtain Wall Panels. Celotex Corp., Chicago, Ill.
Cenco—Anemometers, Hygrometers, Air Velocity Meters, Psychrometers, Pumps. Central Scientific Co., Chicago, Ill.
Center-Finder—Protractor. Interstate Sales Co., New York, N. Y.
Center-Lock—Blower Wheels. Torrington Mfg. Co., Torrington, Conn.
Cen-Tri-Core—Solder. Alpha Metals, Inc., Jersey City, N. J.
Centrifugal—Roof Ventilators. Burt Mfg. Co., Akron, Ohio.
Centripeller—Ventilating Fans. Paul R. Jordan & Co., Inc., Indianapolis Ind.
Centri-vent—Ventilators. Midwest Air-moving Corp., Willoughby, O.
Centri-Vent—Ventilating Systems for Kitchens and Bathrooms. Lau Blower Co., Dayton, O.
Century—Water Heaters. Day & Night Mfg. Co., La Puente, Calif.
Cerafelt—Combustion Chambers. Sid Harvey, Inc., Valley Stream, N. Y.
Ceramiduct—Non-Metallic Duct. Straitsville Brick Co., New Straitsville, O.
Challenger—Fans. Palmer Engineering Co., Fan Div., West De Pere, Wis.
Challenger—Furnaces. Wheeling Furnace Corp., Martins Ferry, Ohio.
Challenger—Stokers. Kol-Master Corp., Oregon, Ill.
Challenger—Furnaces. York Div. of Borg-Warner Corp., York, Pa.
Chamco—Building Insulation. Chamberlin Co. of America, New York, N. Y.
Champion—Water Heaters. Bastian-Morley Co., Inc., LaPorte, Ind.
Champion—Water Heaters. Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
Channellock—Pliers. Champion DeArment Tool Co., Meadville, Pa.
Charg-A-Can—Refrigerants. American Potash & Chemical Corp., Los Angeles, Calif.
Chem-O-Glas—Plastic Panels. Chemold Co., Santa Monica, Calif.
Chester—Water Heaters. Ajax Thermostatic Controls Co., Gates Mills, Ohio.
Chicago—Brakes, Presses, Press Brake Dies. Dreis & Krump Mfg. Co., Chicago, Ill.
Chicago—Toggle and Anchor bolts. Chicago Expansion Bolt Co., Chicago, Ill.
Chicago—Stokers. Eddy Stoker Corp., Wheeling, Ill.
Chicago—Throatless Shears. W. A. Whitney Mfg. Co., Rockford, Ill.
Chief—Furnaces. Dowagiac Steel Furnace Co., Dowagiac, Mich.
Chief—Refractories. A. P. Green Fire Brick Co., Mexico, Mo.
Chill Air—Evaporative Coolers, Fans, Recirculating Pumps. Steam-O-Matic Corp., Sedalia, Mo.
Chimney Sweep—Soot Remover. G. N. Coughlan Co., West Orange, N. J.
Chinook—Heating Coils. Bayley Blower Co., Milwaukee, Wis.
Chlorothene—Degreasing Compounds. Dow Chemical Co., Midland, Mich.
Chore Boy—Incinerator. Standard Fuel Engineering Co., Detroit, Mich.
Chore Boy—Incinerators. Incinerator Products Co., Detroit, Mich.
Chromalox—Heaters, Thermostats, Electric Heating Cable and Electric Heat-

ing Panels. Edwin L. Wiegand Co., Pittsburgh, Pa.
Chromenar—Welding Rod. Arcos Corp., Philadelphia, Pa.
Chromend—Welding Rod. Arcos Corp., Philadelphia, Pa.
Chrome Lock—Gaskets. Products Research Co., Burbank, Calif.
Chromtrim—Mouldings and Trim. R. D. Werner Co., Inc., Greenville, Pa.
Chronat—Furnace Repairs. National Foundry & Furnace Co., Dayton, Ohio.
Chronometer—Gas Pressure Regulating Valves. Defender Instrument and Regulator Co., Boody, Ill.
Chronotherm—Thermostats. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Chrysler-Airtemp—Heating and Cooling Equipment. Airtemp Div., Chrysler Corp., Dayton, Ohio.
Cibulas—Puttyless Skylights. General Sheet Metal Works, Inc., Bridgeport, Conn.
Ciel-N-Wall—Fans. Pasco Industries, Inc., Rochester, N. Y.
Cinch—Expansion Bolts. National Lead Co., New York, N. Y.
Cinti—Elbows. Cincinnati Elbow Co., Cincinnati, Ohio.
Circle Clamp—Insulation Fastenings. Cuyahoga Products Corp., Subsidiary Republic Industrial Corp., Cleveland, O.
Circuitrol—Panel and Control Boards. Continental Electric Equipment Co., Cincinnati, Ohio.
Clampmaster—C-clamp. Grand Specialties Co., Chicago, Ill.
Clason—Snow Guards. M. N. Cartier & Sons Company, Providence, R.I.
Classic—Baseboard Diffusers. Krauser-Boyd, Inc., North Tonawanda, N. Y.
Classic—Furnaces. Perfection Div., Hupp Corp., Cleveland, O.
Clean-Air Sentry—Gages. York Div. of Borg-Warner Corp., York, Pa.
Clean Right—Soot Remover. General Filters, Inc., Novi, Mich.
Clean Right—Soot Remover. Miller Product Co., Lansing, Mich.
Clearite—Oil Pump Tester. Jay-Zee Mfg. Co., Chicago Ridge, Ill.
Clearstream—Plastic Tubing. Yardley Plastics Co., Columbus, O.
Clear Vent—Furnace Pipe and Fittings. Westprest, Inc., Amarillo, Tex.
Clearview—Oil Tank Gauge. Boston Machine Works Co., Lynn, Mass.
Clear Vue—Air Conditioning Units. Westprest Inc., Amarillo, Tex.
Cleat Bender—Cleat Bending Machine. Engel Sheet Metal Equipment, Inc., St. Louis, Mo.
Cleveland—Burners, Furnaces, Incinerators. Dornback Furnace & Foundry Co., Eastlake, O.
Cleveland—Water Heaters, Hotstream Heater Co., Cleveland, O.
Click Dial—Controls. Penn Controls, Inc., Goshen, Ind.
Clima-Pump—Heat Pump. Peerless Corp., Indianapolis, Ind.
Climaster—Furnaces. York Div. of Borg-Warner Corp., York, Pa.
Climate Challenger—Air Conditioning Units. York Div. of Borg-Warner Corp., York, Pa.
Climate Changer—Furnaces and Air Conditioning Units. Trane Co., La Crosse, Wis.
Climate Master—Furnaces. Hess Co., Chicago, Ill.
Climatizer—Humidifiers. Keeney Mfg. Co., Newington, Conn.
Climatrol—Air Conditioning Units,

Blower-Filter Units, Furnaces, Conversion Burners, Humidifiers, Dehumidifiers, Incinerators. Mueller Climatrol, Milwaukee, Wis.
Clima-Twin—Air Conditioning Units. Peerless Corp., Indianapolis, Ind. and Round Oak Div., Peerless Corp., Dowagiac, Mich.
Clincher—Gutters and Accessories. Inland Steel Products Co., Milwaukee, Wis.
Clipper—Ventilators. Riggins Metal Products, Inc., Kankakee, Ill.
Clipper—Furnaces. H. C. Little Burner Co., Inc., San Rafael, Calif.
Cliprol—Clip Forming Machine. Lock-former Co., Chicago, Ill.
Cliptak—Adhesives. Cain Mfg. Inc., Birmingham, Ala.
Clix-on—Takeoffs. Standard Metal Fabricating Co., Omaha, Nebr.
Clocel—Insulation. Insul-Cooustic Corp., Maspeth, N. Y.
Coal-O-Matic—Stokers. Automatic Solid Fuels Equipment Co., Indianapolis, Ind.
Coats Atmospheric—Atmospheric Cooling Towers. Tougate & Coats, Austin, Tex.
Coats Hiway—Mechanical Draft Cooling Towers. Tougate & Coats, Austin, Tex.
Cog-Belt—V Belts. Dayton Industrial Products Co., Melrose Park, Ill.
Coldprest—Housings. Commercial Shearing & Stamping Co., Youngstown, Ohio.
Cold Solder—Caulking Compounds, Aluminum Solder. A. L. Okun Co., Inc., So. Ozone Park, N. Y.
Coldstream—Air Conditioning Units. Baker Refrigeration Corp., South Windham, Me.
Cole—Draft Governor. Cole-Sewell Engineering Co., Minneapolis, Minn.
Coleman—Roof Flashings. Flashrite, Inc., Cheyenne, Wyo.
Collopakes—Roofing Paint. Samuel Cabot, Inc., Boston, Mass.
Colmonoy—Welding Rod. Wall Colmonoy Corp., Detroit, Mich.
Colonial—Blower-Filter, Oil Burners, Furnaces, Humidifiers, Heaters, Stokers. Green Colonial Furnace Co., Des Moines, Ia.
Colonial—Rain Goods and Fittings. Royal-Apex Mfg. Co., Brooklyn, N.Y.
Columbia—Furnaces. Sandberg Mfg. Co., Portland, Ore.
Combi-Matic—Gas-Oil Burner. Power-Flame, Inc., Grandview, Mo.
Combustioneer—Stokers. Automatic Solid Fuels Equipment Co., Indianapolis, Ind.
Comet—Gas Water Heaters. Hoyt Heater Co. of No. Calif., Oakland, Calif.
Comfort Air—Humidifier Plates. Molded Products Div., Village Guild, Inc., Portville, N. Y.
Comfort-Aire—Furnaces, Electric Duct Heaters. Heat Controller, Inc., Jackson, Mich.
Comfort Center—Furnaces, Air Conditioning Units. York Div. of Borg-Warner Corp., York, Pa.
Comfort Flo—Furnaces. Montag Inc., Portland, Ore.
Comfortmaster—Furnaces. Thatcher Furnace Co., Garwood, N. J.
Comfortrol—Furnaces. Waterman-Waterbury Co., Minneapolis, Minn.
Cominco—Insulating Cement. United States Mineral Wool Co., Stanhope, N.J.
Command-Aire—Furnaces. Bryant Mfg. Co., Indianapolis, Ind.

Command-Aire—Condensers, Air Conditioning Units. Texas Products Mfg. Co., Waco, Tex.

Commander—Furnaces. Round Oak Co., Inc., of Indiana, Dowagiac, Mich.

Commercial-Aire—Direct Fired Oil Heaters. Industries Inc., Minneapolis, Minn.

Compact—Oil Burners. Breeze Corp., Inc., Newark, N.J.

Compact—Furnaces. Day & Night Mfg. Co., La Puente, Calif.

Compact-Aire—Direct Fired Heaters. Mammoth Industries Inc., Minneapolis, Minn.

Compacto—Furnaces. Mammoth Industries Inc., Minneapolis, Minn.

Compass V-Steel—V-Belts. Goodyear Tire & Rubber Co., Akron, Ohio.

Conco—Evacuating Pumps. Central Scientific Co., Chicago, Ill.

Condaire—Air Conditioning Units. The Williamson Co., Cincinnati, O.

Condens-Aid—Water Conditioners. Schaefer Chemical Products Co., Saginaw, Mich.

Conditionair—Furnaces. Delco Appliance Div., General Motors Corp., Rochester, N. Y.

Condor—Belts. Raybestos-Manhattan, Inc., Passaic, N. J.

Conic-Flow—Sound Absorbers for Duct Systems. Industrial Acoustics Co., Inc., New York, N. Y.

Coni-Vane—Ventilators. Allen Cooler & Ventilator Inc., Rochester, Mich.

Connecticut—Hand Brakes. W. Whitney Stueck, Inc., Old Saybrook, Conn.

Conomannual—Air Filters. Continental Air Filters, Inc., Louisville, Ky.

Conomatic—Air Filters. Continental Air Filters, Inc., Louisville, Ky.

Conso—Louvers and Shutters, Fans, Roof Ventilators. Consolidated General Products, Inc., Houston, Tex.

Consolaire—Air Conditioning Units. Remington Air Conditioning Div., Remington Corp., Auburn, N. Y.

Consolite—Skylights. Consolidated General Products, Inc., Houston, Tex.

Constant Flo—Furnaces. Waltham Oil Burner Co., Inc., East Boston, Mass.

Conterflow—Furnaces. Western Blower Co., Seattle Wash.

Continental—Unitary Air Conditioners. International Metal Products Div., McGraw-Edison Co., Phoenix, Ariz.

Contour-Aire—Furnaces and Oil Burners. Rossor Mfg Co., Seattle Wash.

Contractor—Gas Burners. Barber Mfg. Co., Cleveland, O.

Convactor—Furnaces. L. J. Mueller Furnace Co., Milwaukee, Wis.

Convactor—Humidifiers. Maid-O'-Mist, Inc., Chicago, Ill.

Convento—Ventilators. Ammerman Co., Inc., Stillwater, Minn.

Coolair—Evaporative Cooler Units. Belmetals Mfg. Co., Inc., Belmont, Calif.

Coolair—Fans. Fan Blades, Roof Ventilators. American Coolair Corp., Jacksonville, Fla.

Cooler-Aire—Air Conditioning Unit. Baltimore Porcelain Steel Corp., Baltimore, Md.

Coolero—Ventilators. Hirschman-Pohle Co., Inc., LeRoy, N.Y.

Coolite—Paint. Fibreboard Paper Products Corp., San Francisco, Calif.

Cool Pad—Evaporative Cooler Mats. Research Products Corp., Madison, Wis.

Cooltong—Brazing Torches. Lincoln Electric Co., Cleveland, O.

Cooper-Kote—Sheet Metal Paint. Coopers Creek Chemical Corp., West Conshohocken, Pa.

Copper-Champ—Roof Flashings. Ludlow Papers, A Division of Ludlow Corp., Needham Heights, Mass.

Copper-Fabric—Flashing. Wasco Products, Inc., Cambridge, Mass.

Copperseal—Flashing. Wasco Products, Inc., Cambridge, Mass.

Copper Steel—Copper Bearing Sheets. United States Steel Corp., Pittsburgh, Pa.

CopR-fibre—Insulation. Forty-Eight Insulations, Inc., Aurora, Ill.

Cop-R-Flash—Flashing. Phoenix Building Products, Inc., Philadelphia, Pa.

Cop-R-Loy—Copper Bearing Steel Sheets. Wheeling Steel Corp., Wheeling, W. Va.

Cop-R-Tex—Thru-Wall Flashing. Wasco Products, Inc., Cambridge, Mass.

Corkboard—Insulation. Armstrong Cork Co., Lancaster, Pa.

Cork-Flex—Vibration Isolating Bases and Pads. Vibration Mountings and Controls Inc., Corona, N. Y.

Cork-Rib—Vibration Isolating Pads. Vibration Mountings, Inc., Corona, N. Y.

Corkute—Insulation. Meadows, Inc., W. R., Elgin, Ill.

Coronado—Window Air Conditioners. General Appliance Corp., Greenville, Mich.

Corozone—Ozone Apparatus. Coroaire Heater Corp., Cleveland, Ohio.

Corrodicide—Rust Preventive Chemicals and Water Conditioning Compounds. Metropolitan Refining Co., Inc., Long Island City, N. Y.

Corrodine—Rust Preventive Chemicals and Water Conditioning Compounds. Metropolitan Refining Co., Inc., Long Island City, N. Y.

Cor Ten—Steel Plates. Tennessee Coal & Iron Div., U.S. Steel Corp., Fairfield, Ala.

Corvel—Metal Protective Coatings. Polymer Corp., Reading, Pa.

Corvette—Water Heaters. Security Mfg Co Kansas City, Mo.

Cottrell Process—Collectors. Western Precipitation Corp., Los Angeles, Calif.

Counterflo—Direct Fired Heaters. Dravo Corp Pittsburgh Pa.

Coverage—Ventilating Hoods. Philip Carey Mfg. Co., Cincinnati, O.

Covotop—Roofing Felt. Owens-Corning Fiberglas Corp., Toledo, O.

Covv—Furnaces. Advance Furnace Co., Wichita, Kans.

Crane Basmor—Furnaces. Bastian-Morley Co Inc LaPorte Ind.

Crav's—Cut-Offs. Galvan Mfg Co New Albany, Ind.

Crest—Water Heaters. Day & Night Mfg. Co., La Puente, Calif.

Crestoloy—Tools. Crescent Tool Co Jamestown, N. Y.

Criss Cross—Furnace Brushes. Worcester Brush & Scraper Co Div Masor Worcester Brush Co., Worcester, Mass.

Cromalov—Stainless Soldering Flux. Linde Co., Div Union Carbide Corp., New York, N. Y.

Cro-Roto—Embossed Metal Sheets. Croname, Inc., Chicago, Ill.

Cross-Flo—Refrigerant Dehydrators. Remco, Inc., Zelenople, Pa.

Cross Vu—Sight Glasses for Refrigerant Lines. Henry Valve Co., Melrose Park, Ill.

Croweave—Embossed Metal Sheets. Croname, Inc., Chicago, Ill.

Crusader—Gas Water Heaters. R. D. Spickler Co., Inc., Mamaroneck, N. Y.

Curtiss—Furnaces and Air Conditioning Units. Kleer-Kleen Mfg. Co., Hayward, Calif.

Cushioned Power—Solenoid Valves. White-Rodgers Co., St. Louis, Mo.

Customized—Electric Motors. Jack & Heintz, Inc., Cleveland, O.

Customline—Controls. White-Rodgers Co., St. Louis, Mo.

Custom Mark II—Furnaces. Iron Fireman Mfg. Co., Cleveland, O.

Cyclo-Core—Rotary Drill Bits. New England Carbide Tool Co., Inc., Medford, Mass.

Cycloidal Exhausters—Material Handling Blowers. Garden City Fan & Blower Co., Niles, Mich.

Cyclo-Jet—Burners. Roberts-Gordon Appliance Co., Buffalo, N. Y.

Cyclo-Twist—Masonry Drill Bits. New England Carbide Tool Co., Inc., Medford, Mass.

Cyclone—Hoists. Chisholm-Moore Hoist Div., Columbus McKinnon Chain Corp., Tonawanda, N. Y.

Cycoil—Dust Collectors. American Air Filter Co., Inc., Louisville, Ky.

D

DFC—Insulating Cement. Denver Fire Clay Co., Denver, Colo.

DFN—Fuel Oil Filters, Sight Glass for Refrigerant Lines, Refrigerant Charging Hose, Valves, Driers and Strainers for Refrigeration Systems, Refrigerant Dehydrators. McIntire Co., Livingston, N. J.

Dacor—Odor Adsorbers. Filters. Barney-Cheney Co., Columbus, O.

Daffinaire—Humidifiers. HERRmidifier Co., Inc., Lancaster, Pa.

Daisy—Rivets. Huck Mfg. Co., Detroit, Mich.

Damite—Waterproofing. Speco, Inc., Cleveland, O.

Da-Nire Acratherm—Thermostats. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.

Dasco Targethead—Punches. Tools. Damascus Steel Products Corp., Rockford, Ill.

Dearborn Aire—Air Conditioning Units. Dearborn Stove Co., Dallas, Tex.

Dearsol—Fuel Oil Tank Solvents. Dearborn Chemical Co., Chicago, Ill.

Debonair—Furnaces. Williams Furnace Co., Buena Park, Calif.

Decorator—Wall Furnaces. Heil-Quaker Corp., Nashville, Tenn.

Devoval—Paints. Devoise Co., Brooklyn, N. Y.

Deep Well—Pillow Block Bearings. Randall Graphite Bearings, Inc., Lima, O.

Delfectrol—Duct Turning Vanes. Barber Colman Co., Rockford, Ill.

Dehydratone—Waterproofing. A. C. Horn Co., Inc., North Bergen, N. J.

Delco-Heat—Oil Burners and Furnaces. Delco Appliance Div., General Motors Corp., Rochester, N. Y.

Delde—Punch Presses. Doelger & Kirsten Inc., Milwaukee, Wis.

Deltafilm—Vapor Barriers. The Delta Co., Chicago, Ill.

Deluxe—Furnaces. The Williamson Co., Cincinnati, O.

Deluxe—Water Heaters. Holly-General Co., Pasadena, Calif.

De-Moist—Dehumidifiers. G. N. Coughlan Co., West Orange, N. J.

Denco—Nails. Deniston Co., Chicago, Ill.

Deox—Metal Cleaner. Colonial Alloys Co., Philadelphia, Pa.

Deoxidine—Metal Protecting Paint. American Chemical Paint Co., Ambler, Pa.

Desco—Blower Wheels. Denbo Engineering and Sales Co., Inc., Indianapolis, Ind.

Desert Air—Furnaces. Central States Mfg. Co., Inc., Arkansas City, Kans.

Desludgit—Fuel Oil Tank Solvent. Stewart-Hall Chemical Corp., Mt. Vernon, N. Y.

De-Sta-Co—Blower Housings, Toggle Clamps. Detroit Stamping Co., Detroit.

Detect-A-Leak—Refrigerant Leak Detectors. Flamort Chemical Co., San Francisco, Calif.

Detroit—Controls. Controls Div. of American-Standard, Detroit.

Detroit Double Retort—Stokers. Detroit Stoker Co., Monroe, Mich.

Detroit LoStoker—Stokers. Detroit Stoker Co., Monroe, Mich.

Detroit Roto Grate Stoker—Stokers. Detroit Stoker Co., Monroe, Mich.

Detroit Roto Stoker—Overfeed Spreader Stoker. Detroit Stoker Co., Monroe, Mich.

Detroit UniStoker—Stokers. Detroit Stoker Co., Monroe, Mich.

Di-Acro—Sheet Metal Working Machines. O'Neil-Irwin Mfg. Co., Lake City, Minn.

Dial—Damper Regulator. Martens & Stormoen Co., West Quincy, Mass.

Dialaire—Air Conditioning Units. Dialatemp, Inc., St. Louis, Mo.

Dial-Set—Stokers. Kol-Master Corp., Oregon, Ill.

Diamond—Paint. Thompson & Co., Oakmont, Pa.

Diamond—Smoke Pipe Dampers. Adams Co., Dubuque, Iowa.

Diamond—Spot Welders. General Dynamics Corp., Liquid Carbonic Div., Chicago, Ill.

Diamond H—Controls, Switches. Hart Mfg. Co., Hartford, Conn.

Diffusaire—Air Diffusers. Hart & Cooley Mfg. Co., Holland, Mich.

Dimple Slotter—Punch Press Dies. Fastening Machines. Airo Industries, Los Angeles, Calif.

Directrol—Duct Turning Vanes. Register & Grille Mfg. Co., Inc., Brooklyn.

Divco—Brushes, Flashing, Caulking Compounds, Flux, Sheets, Solder. Division Lead Co., Summit, Ill.

Dixie—Water Heaters. Hotstream Heater Co., Cleveland, Ohio.

Dixie-Aire—Furnaces. Peerless Corp., Indianapolis, Ind., and Round Oak Div., Peerless Corp., Dowagiac, Mich.

Dixie Star—Water Heaters. Hotstream Heater Co., Cleveland, Ohio.

D'Luxline—Controls. White-Rodgers Co., St. Louis, Mo.

Do-All—Electric Hammer. Wodack Electric Tool Corp., Chicago, Ill.

Docken—Portable Electric Shears. C. W. Lind Co., Minneapolis, Minn.

Dome Skylites—Skylights. Vent-O-Lite Co., Chicago, Ill.

Domestigas—Gas Conversion Burners. Thermex Engineering Co., Chicago, Ill.

Domette—Fans. Penn Ventilator Co., Inc., Philadelphia, Pa.

Domex—Ventilators. Penn Ventilator Co., Inc., Philadelphia, Pa.

Do-Mor—Adj. Keyhole Saw. Pioneer Tool Co., Racine, Wis.

Dorex—Odor Absorbers. Connor Eng. Corp., Danbury, Conn.

Double Diamond—Psychrometers, Relays, Switches, Thermometers. H-B Instrument Co., Philadelphia, Pa.

Double-Duty—Oil Burners. Breeze Corps., Inc., Newark, N. J.

Double-Seal—Humidifier Fittings. Hays Mfg. Co., Erie, Pa.

Doublex—Asbestos Paper. Johns-Manville, New York, N. Y.

Dowex—Water Conditioning Compounds. Dow Chemical Co., Midland, Mich.

Downflame—Gas-Oil Burners, Floor Fur-

naces. United Air Heaters, Inc., Seattle, Wash.

Downflo—Furnaces. United Air Heaters, Inc., Seattle, Wash.

Draftbooster—Power Draft Units. Breese Burners, Inc., Sales and Appliance Engineering Div., Milwaukee, Wis.

Draft-A-Justor—Barometric Dampers. Preferred Utilities Mfg. Corp., New York, N. Y.

Draft King—Chimney Caps and Tops. Norwood Products Co., Div. A. R. Wood Mfg. Co., Luverne, Minn.

Draft Korektor—Damper. Cole-Sewell Engineering Co., Minneapolis, Minn.

Draft-O-Stat—Barometric Dampers. Hotstream Heater Co., Cleveland, Ohio.

Drafrite—Draft Gages. Bacharach Industrial Instrument Co., Pittsburgh, Pa.

Dragon—Furnace Vacuum Cleaners. Empire Chemical Products Co., Newark, N. J.

Dricon—Condensers. Recold Corp., Los Angeles, Calif.

DriCooler—Condensers. The Marley Co., Kansas City, Mo.

Dri-Cor—Refrigerant Dehydrators. Henry Valve Co., Melrose Park, Ill.

Dri-Fan—Evaporative Condensers. Recold Corp., Los Angeles, Calif.

Drifilter—Filters. American Air Filter Co., Inc., Louisville, Ky.

Drifilter—Filters. Airtard Mfg. Co., Chicago, Ill.

Dri-Lap—Sheet Metal Roofing. Newport Steel Corp., Newport, Ky.

Drill Hammer—Hammer Attachment for Drills. Rawlplug Co., Inc., New Rochelle, N. Y.

Drill Screws—Sheet Metal Screws. Duro-Dyne Corp., Farmingdale, N. Y.

Drillsaw—Attachment for Drill. Williams Tool & Stamping Co., Inc., Kansas City, Mo.

Dri-N-Tite—Roof Cement. A. C. Horn Co., Inc., North Bergen, N. J.

Drive-It—Powder Charged Power Hammers. Omark Industries, Inc., Portland, Oreg.

Drive-Rite—Aluminum Nails. Independent Nail & Packing Co., Bridgewater, Mass.

Drival—Waterproofing. Glidden Co., Cleveland, O.

Drum Punkah—Duct Dampers. Thermo-tank, Inc., Air Products Div., Detroit, Mich.

Dry-Eye—Refrigerant Dehydrators. Ansul Chemical Co., Refrigeration Div., Marinette, Wis.

Drygalv—Cold Galvanizing Compounds. American Solder & Flux Co., Philadelphia, Pa.

Drymaster—Dehumidifiers. Dryomatic Corp., Alexandria, Va.

Dryola—Incinerators. General Engineering Co., Bay City, Mich.

Du-Air—Duct Damper Controls. Morrison Products, Inc., Cleveland, O.

DualAire—Blow Pipe Collectors. Western Precipitation Corp., Los Angeles, Calif.

Dual Arc—Arc Welders. Electric Arc, Inc., Newark, N. J.

Dual-Clone—Blow Pipe Collectors. Day Co., Minneapolis, Minn.

Dual-Dial—Tank Gauge. Rochester Mfg. Co., Inc., Rochester, N. Y.

Duallock—Furnaces. Mueller Climatrol, Milwaukee, Wis.

Dual-Pneumatic—Water Spray Nozzles. HERRmidifier Co., Inc., Lancaster, Pa.

Dualvector—Air Conditioning Units. Kritzer Radiant Coils, Inc., Batavia, Ill.

Dualvent—Roof Ventilators. Octagon Ventilator Mfg. Co., Jackson, Tenn.

Dubblseal—Sheeting. Masonite Corp., Chicago, Ill.

Dubl-Dome—Skylights. The PAM Co., Portland, Ore.

Duboth—Rust Preventive Chemicals and Water Conditioning Compounds. Metropolitan Refining Co., Inc., Long Island City, N. Y.

Duclean—Metal Cleaner. E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.

Duco—Paint. E. I. du Pont de Nemours & Co., Wilmington, Del.

Ductak—Insulation Adhesive. Cain Mfg. Co., Birmingham, Ala.

Ductboard—Prefabricated Ducts. Nicolet Industries, Inc., Florham Park, N. J.

Duct-D-Fuser—Ceiling Diffusers, High Pressure Diffusers. United Sheet Metal Co., Inc., Columbus, O.

Duct-Fabric—Flexible Duct Connections. Duro-Dyne Corp., Farmingdale, N. Y.

Ductape—Sheet Metal Fastenings. Western Wire Products Co., St. Louis, Mo.

Ductilend—Welding Rod. Arcos Corp., Philadelphia, Pa.

Duct Screws—Sheet Metal Screws. Duro-Dyne Corp., Farmingdale, N. Y.

Ducturns—Vanes. Tuttle & Bailey Div. of Allied Thermal Corp., New Britain, Conn.

Ductype—Fans. South Bend Air Products, Inc., South Bend, Ind.

Dulux—Enamels, Lacquers and Paints. E. I. du Pont de Nemours & Co., Wilmington, Del.

Dum Dum—Metal Protective Coatings, Caulking Compounds, Waterproofing. Arco Co., Cleveland, O.

Duolock—Bonding Adhesives. B. F. Goodrich Industrial Products Co., Akron, O.

Duo-Therm—Furnaces, Unitary Air Conditioners. Consumer Products, Motor Wheel Corp., Lansing, Mich.

Duo-Tone—Aluminum Awnings. Koolvent Metal Awnings Corp. of America, Pittsburgh, Pa.

Duo-Trol—Furnaces. Holly-General Co., Pasadena, Calif.

Duplex—Roofing Cement. Johns-Manville, New York, N.Y.

Duplex Twin—Vibration Isolating Pads. Korfund Co., Westbury, L. I., N. Y.

Dupont—Blind Rivets. Bowman Products Co., Cleveland, O.

DuraBilt—Gravity Registers. Auer Register Co., Cleveland, Ohio.

Duraflex—Stokers. Canton Stoker Corp., Canton, Ohio.

Dura-Flex—Directional Flow Registers. Auer Register Co., Cleveland, Ohio.

Dura-Line—Registers. Auer Register Co., Cleveland, Ohio.

Durez—Phenolic Molding Compounds and Resins. Durez Plastics Div., Hooker Chemical Corp., North Tonawanda, N. Y.

Duridine—Chemical Cleaner. American Chemical Paint Co., Ambler, Pa.

Duroblade—Duct Damper Regulators. Duro-Dyne Corp., Farmingdale, N. Y.

Duroglas—Water Heaters. Holly-General Co., Pasadena, Calif.

Dust-ban—Air Filters. Skuttle Mfg. Co., Milford, Mich.

Dust-Gard—Air Filters. American Rock Wool Co., Chicago, Ill.

Dustkop—Dust Collectors. Agat Mfg. Co., Adrian, Mich.

Dust-Magnet—Air Filters. Stoddard Industries, Inc., Cudahy, Wis.

DustRid—Dust Recovery Bags. Mastercraft Industries, Inc., Garfield, N. J.

Dustronic—Electrical Air Cleaners. Radex Corp., Chicago, Ill.

DustStop—Filters. Owens-Corning Fiberglas Corp., New York, N. Y.

Dutch Boy—Paints, Flux, Solder. National Lead Co., New York, N. Y.
 Dux-Sulation—Duct Insulation. Grant Wilson, Inc., Chicago, Ill.
 Duxsul-glue—Insulation Adhesives. Grant Wilson, Inc., Chicago, Ill.
 Duzall—Flux. All-State Welding Alloys Co., Inc., White Plains, N. Y.
 Dycon—Filters. Continental Air Filters, Inc., Louisville, Ky.
 Dynafan—Ventilators. Penn Ventilator Co., Inc., Philadelphia, Pa.
 Dynaflo—Fans. South Bend Air Products, Inc., South Bend, Ind.
 Dyna Line—Electric Motors. Brown-Brockmeyer Co., Inc., Dayton, O.
 Dyna-V—V-Belts. Dodge Mfg. Corp., Mishawaka, Ind.
 Dyne-Aire—Furnaces Direct Fired Heaters. American Foundry & Furnace Co., Bloomington, Ill.
 Dyno-Il—Solenoid Valves. McQuay-Norris Mfg. Co., St. Louis, Mo.
 Dyno-Mite—Electric Drills, Buffers. Millers Falls Co., Greenfield, Mass.

E

E. C. Cord—V-Belts. Goodyear Tire & Rubber Co., Akron, Ohio.
 EC&M—Controls. Electric Controller & Mfg. Co., Cleveland, O.
 EFM—Burners, Furnaces, and Stokers. Electric Furnace-Man, Inc., Emmaus, Pa.
 EM—Motors. Electric Machinery Mfg. Co., Minneapolis, Minn.
 EMC—Electric Motors. Howard Industries, Inc., Racine, Wis.
 E-Z—Soot Remover. Norman Chemical Co., St. Paul, Minn.
 E-Z—Power Hack Saws. Merchandising and Mfg. Associates, Inc., Lancaster, Pa.
 E-Z Dux—Duct Connections. St. Clair Rubber Co., Detroit, Mich.
 E-Z-Hung—Eaves Trough and Gutters. Riggins Metal Products, Inc., Lansing, Mich.
 E Z Kleen—Filters. Research Products Corp., Madison, Wis.
 E Z Laid—Roof Fastening Clips. Bard Mfg. Co., Bryan, O.
 E-Z-On—Damper Clips and Tips, Damper Regulators. M. A. Gerett Corp., Milwaukee, Wis.
 EZ Treat—Rust Preventive Chemicals. Metropolitan Refining Co., Inc., Long Island City, N. Y.
 Eagle Glass—Water Heaters. American Appliance Mfg. Corp., Santa Monica, Calif.
 Eagle Super "66"—Furnace Insulation. Eagle-Picher Co., Cincinnati, Ohio.
 Eagle Super temp—Duct Insulation. Eagle-Picher Co., Cincinnati, Ohio.
 Easternoil—Oil Burners. Eastern Oil & Equipment Co., Portland, Me.
 Easyarc—Welding Rod. Air Reduction Sales Co., New York, N. Y.
 Easy-Flo—Solder. Handy & Harman, New York, N. Y.
 Easy-flo—Silver Solder. Wabash Corp., Chicago, Ill.
 Easy-Flush—Cleaning Compounds for Air Filters. Empire Chemical Products Co., Newark, N. J.
 Easy-Mold—Non-Metallic Duct. Round Tube and Cores Co., Chicago, Ill.
 Easy-Slip—Gutters. La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis.
 Ecco—Diffusers. Air-Factors, Inc., Monrovia, Calif.
 Echo—Ceiling Ventilators. Elgo Shutter

& Mfg. Co., Detroit, Mich.
 Echo—Fuel Oil Filters, Tank Gages. A. B. Carlson Co., Inc., Aurora, Ill.
 Eclipse—Refrigerating Compressors. Frick Co., Waynesboro, Pa.
 Econ-O-Fab—Duct Connections. Duro-Dyne Corp., Farmingdale, N. Y.
 Economite—Gas Burners. Mid-Continent Metal Products Co., Chicago, Ill.
 Econ-O-Mizer—Cooling Towers. Acme Industries, Inc., Jackson, Mich.
 Economy—Power Hack Saws. Robertson Machine and Foundry, Buffalo, N. Y.
 Economy—Incinerators. Comstock-Castle Stove Co., Quincy, Ill.
 Economy—Adjustable Buffing Hoods. Kirk & Blum Mfg. Co., Cincinnati, Ohio.
 Economy—Ventilators. Arex Company, Chicago, Ill.
 Economy—Squaring Shears. Acme Equipment Co., Inc., Chicago, Ill.
 Econ-O-Roll—Air Filters. Green Fuel Economizer Co., Inc., Beacon, N. Y.
 Econo-Watt—Electric Motors. Redmond Co., Inc., Subsidiary of Controls Co. of America, Owosso, Mich.
 Edgemaster—Sheet Metal Working Machines. Engel Sheet Metal Equipment, Inc., St. Louis, Mo.
 Edgenotcher—Sheet Metal Notching Machine. Engel Sheet Metal Equipment, Inc., St. Louis, Mo.
 Edgeseal—Filters. Technical Filter Co., Chicago, Ill.
 Efficco—Ventilators. Hirschman-Pohle Co., LeRoy, N. Y.
 Efficco Louver—Ventilators. Hirschman-Pohle Co., Inc., LeRoy, N. Y.
 Eiermann—Roofers' Tools. Efsco Products Co., Syracuse, N. Y.
 Ekonomaster—Furnaces. XXth Century Heating & Ventilating Co., Akron, O.
 Elastikote—Paint. Tropical Paint Co., Cleveland, Ohio.
 Elastite—Roof Cement. Philip Carey Mfg. Co., Cincinnati, O.
 Elasto-Rib—Vibration Isolating Pads. Korfund Co., Inc., Westbury, L. I., N. Y.
 Elcon—Stationary Louvers. Elgo Shutter & Mfg. Co., Detroit, Mich.
 Electric City—Gutter Forming Machines. Robertson Machine and Foundry, Buffalo, N. Y.
 Electric Janitor—Draft Damper Motors, Hand Fired Control Systems. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Electrobase—Electric Baseboard Heaters. Embassy Steel Products, Inc., Brooklyn, N. Y.
 Electro-Cell—Electronic Air Cleaners. American Air Filter Co., Inc., Louisville, Ky.
 Electroflo—Solenoid Valves. Hays Mfg. Co., Erie, Pa.
 Electro-Flux-Stik—Soldering Flux. Lake Chemical Co., Chicago, Ill.
 Electro-Klean—Electronic Air Cleaners. American Air Filter Co., Inc., Louisville, Ky.
 Electrolaire—Air Conditioning Furnaces. Electrol Burner Mfg. Co., Rutherford, N. J.
 Electro-Matic—Electronic Air Cleaners. American Air Filter Co., Inc., Louisville, Ky.
 Electromaze—Electronic Air Cleaners. Air-Maze Corp., Cleveland, Ohio.
 Electro-Mesurflo—Solenoid Valve. Hays Mfg. Co., Erie, Pa.
 Electro-Mist—Dust Collectors. American Air Filter Co., Inc., Louisville, Ky.
 Electromite—Solenoid Valves. Hays Mfg. Co., Erie, Pa.
 Electro-PL—Electronic Air Cleaners.

American Air Filter Co., Louisville, Ky.
 Electro-Sheet—Roofing. American Brass Co., Waterbury, Conn.
 Electro-Staynew—Electrical Air Cleaners. Dollinger Corp., Rochester, N. Y.
 Electro-Valve—Solenoid Valves. Sciaky Bros., Inc., Chicago, Ill.
 Electroweld—Welders. Electric Arc, Inc., Newark, N. J.
 Electro-Wind—Ventilators. Allen Cooler & Ventilator Inc., Rochester, Mich.
 Electrunit—Tubing. Steel & Tubes Div., Republic Steel Corp., Cleveland, Ohio.
 Elgin—Louvers and Shutters. Elgo Shutter & Mfg. Co., Detroit, Mich.
 Eljay—Water Heaters. W. L. Jackson Mfg. Co., Inc., Chattanooga, Tenn.
 Emco—Fusible Links, Metal Sheets, Solder. Empire Metal Co., Syracuse, N. Y.
 Empire—Mallets. Greene, Tweed & Co., North Wales, Pa.
 Empire—Refractories. A. P. Green Fire Brick Co., Mexico, Mo.
 Emulsoprep—Metal Cleaners. Neilson Chemical Co., Detroit, Mich.
 Enamelclad—Roofing Paint. Philip Carey Mfg. Co., Cincinnati, Ohio.
 Endo—Duct Dampers. Elgo Shutter & Mfg. Co., Detroit, Mich.
 End O' Soot—Fuel Oil Tank Solvent. Stewart-Hall Chemical Corp., Mt. Vernon, N. Y.
 Epco—Heating, Ventilating and Air Conditioning Grilles, Perforated Metals. Erdle Perforating Co., Rochester, N. Y.
 Era—Furnaces Excelsior Steel Furnace Co., Chicago, Ill.
 Era Exl-Air—Furnaces. Excelsior Steel Furnace Co., Chicago, Ill.
 Eraydo Alloy—Metal Sheets, Roofing. Illinois Zinc Co., Div. of Hydrometals Inc., Chicago, Ill.
 Ervaduct—Prefabricated Metal Ducts. Ervite Corp., Erie, Pa.
 Erveen—Curtain Wall Panels. Ervite Corp., Erie, Pa.
 Esco—Refractories, Smoke Pipe Dampers, Furnace Repair Parts. Eselgroth & Co., Roselle, N. J.
 Ezzo—Furnaces, Oil Burners. Gilbert & Barker Mfg. Co., West Springfield, Mass.
 Eternit—Non-Metallic Sheets, Ruberoid Co., New York, N. Y.
 Eveco-Mutual—Barometric Dampers. Mutual Mfg. Co., Flushing, N. Y.
 Even-Temp—Furnaces. Northwest Metal Products, Inc., Seattle, Wash.
 Everdur—Plates, Sheets, Welding Rod. Anaconda American Brass Co., Waterbury, Conn.
 Everedy—Oil Burners. Mt. Hawley Mfg. Co., Peoria, Ill.
 Everglas—Water Heaters. Hotstream Heater Co., Cleveland, O.
 Ever-last—Air Filters. Master Products Co., Chicago, Ill.
 Everlasting—Fastenings. H. M. Harper Co., Morton Grove, Ill.
 Excellor—Saw Blades. Price & Rutzebeck, Hayward, Calif.
 Exhaustalyzer—CO₂ Analyzers. Chas. Engelhard Industries Inc., Instruments & Systems Div., East Newark, N. J.
 Exhaustmaster—Roof Ventilators. E. Van Noorden Co., Boston, Mass.
 Exhaust-O-Vent—Garage Exhaust Fittings. The Engwald Corp., Inwood, L. I., N. Y.
 Exidust—Dust Collectors. Allen Billmyre Div., Lamson Corp., Syracuse, N. Y.
 Expand-R-Strap—Insulation Fastenings. A. J. Gerrard & Co., Des Plaines, Ill.
 Expanslip—Fireplace Draft Dampers. Bennett-Ireland, Inc., Norwich, N. Y.

F

- FAS—Make-up Air Units. L. J. Wing Mfg. Div., Aero Supply Mfg. Co., Inc., Linden, N. J.
- F & E—Underfeed Stokers. Flynn & Emrich Co., Baltimore, Md.
- F Electric—Fan Roof Ventilators. Hirschman-Pohle Co., Inc., LeRoy, N. Y.
- Fab-Ric—Flexible Duct Connections. Cain Mfg. Inc., Birmingham, Ala.
- Fabricote—Waterproofing. Wasco Products, Inc., Cambridge, Mass.
- Fabri-Flex—Vibration Isolating Bases and Pads. Vibration Mountings and Controls, Inc., Corona, N. Y.
- Fabrikated—Faces, Grilles, Registers. Independent Register Co., Cleveland, Ohio.
- Fan-Air—Gas Burners. Mettler Co., Inc., Los Angeles, Calif.
- Fanaire—Diffusers. Auer Register Co., Cleveland, O.
- Fandaire—Unitary Air Conditioners, Condensers. Airmco Products Corp., Inc., Subsidiary of Yuba Consolidated Industries, Inc., Tulsa, Okla.
- Far-Air—Evaporative Coolers, Filters. Farr Co., Los Angeles, Calif.
- Farco—Soldering Flux. Farrelloy Co., Inc., Philadelphia, Pa.
- Fargall—Soldering Flux. Farrelloy Co., Philadelphia, Pa.
- Farmotor—Electric Motors. Franklin Electric Co., Inc., Bluffton, Ind.
- Farsol—Soldering Flux. Farrelloy Co., Inc., Philadelphia, Pa.
- Fashion—Controls. White-Rodgers Co., St. Louis, Mo.
- Fastak—Insulation Adhesive. Cain Mfg. Inc., Birmingham, Ala.
- FaucetHot—Water Heaters. Bastian-Morley Co., Inc., La Porte, Ind.
- Featherfin—Coils. L. J. Wing Mfg. Div., Aero Supply Mfg. Co. Inc., Linden, N. J.
- Federal—Fuel Oil Filters. Norwood Products Co., Div. A. R. Wood Mfg. Co., Luverne, Minn.
- Federal—Oil Filters. Tool Industries, Inc., Detroit, Mich.
- Federal—Refractories. United States Stoneware Co., New York, N.Y.
- Feltex—Roofing Felt. Philip Carey Co., Cincinnati, Ohio.
- Felt-Grip—Vibration Isolating Bases and Pads. Vibration Mountings and Controls, Inc., Corona, N. Y.
- Fenn's Rotary—Roof Ventilators. Waverly Heating Supply Co., Beverly, Mass.
- Ferro—Soldering Flux. Linde Air Products Co., New York, N. Y.
- Ferro-Bord—Metal Roof Decking. Republic Steel Corp., Cleveland, O., also Truscon Div., Youngstown, O.
- Ferro-Therm—Reflective Insulation. American Flange & Mfg. Co., Inc., New York, N. Y.
- Festoon—Metal Sheets. United States Gypsum Co., Chicago, Ill.
- Feutron—Fibers for Air Filters. American Felt Co., Glenville, Conn.
- Fiber-Aire—Roof Ventilators. Swartwout Fabricators, Inc., Kokomo, Ind.
- Fibercote—Roofing Paint. The Harrison Paint & Varnish Co., Midland Industrial Div., Canton, O.
- Fiberglas—Insulation, Non-Metallic Duct. Owens-Corning Fiberglas Corp., New York, N. Y.
- Fiber Glass—Insulation. Pittsburgh Plate Glass Co., Pittsburgh, Pa.
- Fiberkote—Roofing Cement. National Mfg. Corp., Tonawanda, N. Y.
- Fiberock—Asbestos Paper, Roofing Felt. Philip Carey Mfg. Co., Cincinnati, Ohio.
- Fiber Seal—Paint. Midland Paint & Varnish Co., Cleveland, O.
- Fibre Coating—Roofing Paint. Philip Carey Mfg. Co., Cincinnati, Ohio.
- Fibroid—Asbestos Paper. Johns-Manville, New York, N. Y.
- Fibronized—Plastic Tubing. Irvington Varnish & Insulator Co., Irvington, N. J.
- Fil-O-Matic—Fuel Oil Tank Gages. Kresno-Stamm Mfg. Co., Palisades Park, N. J.
- Filtaire—Ventilating Hoods. Morrison Products, Inc., Cleveland, O.
- Filtcote—Oils for Coating Viscous Air Filters. Easton R. S. Corp., Brooklyn, N. Y.
- Filter Chek—Filter Resistance Gages. Rex Metal-Craft, Inc., Indianapolis, Ind.
- Filter Power—Dust Recovery Bags. Master-Craft Industries, Inc., Garfield, N. J.
- Filter Watcher—Filter Resistance Indicating Gage. Viking Instruments, Inc., East Haddam, Conn.
- Fil-thru—Oil Tank Gauge. Applied Mechanics Co., Boston, Mass.
- Filtr-Aire—Filters. A C Products, Inc., Houston, Tex.
- Filtrex—Filters. Drico Industrial Corp., Passaic, N. J.
- Fin-Flex—Directional Flow Registers. Auer Register Co., Cleveland, Ohio.
- Finger-Strap—Insulation Fastenings. A. J. Gerrard & Co., Des Plaines, Ill.
- Fire Ball—Gas Burners. Johnson Gas Appliance Co., Cedar Rapids, Iowa.
- Firebox—Combustion Chambers. Sid Harvey, Inc., Valley Stream, N. Y.
- Fire-Chek—Duct Insulation. Ludlow Papers, A Division of Ludlow Corp., Needham Heights, Mass.
- Firecrete—Refractories. Johns-Manville, New York, N. Y.
- Fireguard—Stokers. Eddy Stoker Corp., Wheeling, Ill.
- Fireite—Cement. Johns-Manville, New York, N. Y.
- Fire-Snuf—Plastic Panels. Resolite Corp., Zelienople, Pa.
- Fire-Swirl—Baffles. Zeh Co., Inc., Passaic, N. J.
- Fire Vent—Roof Ventilators. E. Van Noorden Co., Boston, Mass.
- Firewel Health Aire—Furnaces. Victory Mfg. Co., Inc., Lancaster, N. Y.
- Fireye—Controls. Combustion Control Div., Electronics Corp. of America, Cambridge, Mass.
- Firma—Ventilators. Hirschman-Pohle Co., Inc., LeRoy, N. Y.
- Firomatic—Fuel Oil Filters, Vent Caps, Oil Burner Fittings, Valves. Morse-Smith-Morse Co., Watertown, Mass.
- Fit-Al—Saw Blades. Independent Blade Co., Div. Westlund Industries, East Haven, Conn.
- Fitrite—Snow Guards, Gutter Accessories, Chimney Cap Frames, Skylight Lifts, Tools. David Levov, Inc., South Hackensack, N. J.
- Fixit—Roof Cement. National Mfg. Corp., Tonawanda, N. Y.
- Fixt-Aire—Registers and Grilles. Hart & Cooley Mfg. Co., Holland, Mich.
- Flame Chief—Combustion Chambers. Iron-Hide Sales Co., Matawan, N. J.
- Flame-Otrol—Controls. Wheelco Instruments Div., Barber-Colman Co., Rockford, Ill.
- Flame Pulse—Controls. General Controls Co., Glendale, Calif.
- Flatjet—Water Nozzles. Spraying Systems Co., Bellwood, Ill.
- Flat-Topp—Paint. Philip Carey Mfg. Co., Cincinnati, Ohio.
- Fleet Line—Electric Motors. Brown-Brockmeyer Co., Inc., Dayton, O.
- FlexBoard—Non-Metallic Sheets. Johns-Manville, New York, N. Y.
- Flexcell—Bases and Pads. Celotex Corp., Chicago, Ill.
- Flex-Hose—Flexible Metal Hose and Fittings. Korfund Co., Westbury, L. I., N. Y.
- Flexiblac—Paint. Samuel Cabot, Inc., Boston, Mass.
- Flexi-Blade—Registers. Air-Factors, Inc., Monrovia, Calif.
- Flexi-Duct—Duct Connections. Grant Wilson, Inc., Chicago, Ill.
- Flexifo—Air Diffusers. Universal Diffuser Corp., Tuckahoe, N. Y.
- Flexon—Flexible Metal Hose and Fittings. Flexonics Corp., Maywood, Ill.
- Flex-Plates—Vibration Isolating Bases. Vibration Mountings and Controls Inc., Corona, N. Y.
- Flexstone—Roofing Felt. Johns-Manville, New York, N. Y.
- Flex-Sulation—Insulation for Pipes and Tubes. Grant Wilson, Inc., Chicago, Ill.
- Flextop—Roofing Paint. Philip Carey Mfg. Co., Cincinnati, Ohio.
- Flex-Tube—Draft Indicating Gages. F. W. Dwyer Mfg. Co., Michigan City, Ind.
- Floating Air—Unitary Air Conditioners, Coils. Friedrich Refrigerators, Inc., San Antonio, Tex.
- Float-O-Matic—Condensate Pumps. March Mfg. Co., Skokie, Ill.
- Flo-Co—Furnaces and Gas and Oil Burners. Floral City Heater Div., United States Air Conditioning Corp., Monroe, Mich.
- Flo-Master—Louvers and Shutters. Acme Engineering & Mfg. Corp., Muskogee, Okla.
- Floret—Air Velocity Meters. Bacharach Industrial Instrument Co., Pittsburgh, Pa.
- FloRite—Air Velocity Meters. Bacharach Industrial Instrument Co., Pittsburgh, Pa.
- Florite Desiccant—Dehumidifier. Floridin Co., Tallahassee, Fla.
- Flosol—Soldering Flux. Amchem Products, Inc., Ambler, Pa.
- Flow-Cold—Cooling Towers. Acme Industries, Inc., Jackson, Mich.
- Flowing Heat—Furnaces. Sam Daniels Mfg. Co., Inc., Hardwick, Vt.
- Flow-Mizer—Condensers. Acme Industries, Inc., Jackson, Mich.
- Flow-Temp—Air Conditioning Units. Acme Industries, Inc., Jackson, Mich.
- Flualyzer—Portable CO₂ Analyzer. Chas. Engelhard Industries Inc., Instruments & Systems Div., East Newark, N. J.
- Flu-Bonnet—Chimney Caps and Tops. Tesco, Inc., Tulsa, Okla.
- Flux-N-Solder—Solder. Johnson Mfg. Co., Inc., Mount Vernon, Ia.
- Fluxrite—Flux. National Lead Co., New York, N. Y.
- Flux-Stik—Soldering Flux. Lake Chemical Co., Chicago, Ill.
- Foamglas—Insulation. Pittsburgh Plate Glass Co., and Pittsburgh Corning Corp., Pittsburgh, Pa.
- Foamsil—Insulation. Pittsburgh Corning Corp., Pittsburgh, Pa.
- Foil-Champ—Building Insulation. Ludlow Papers, A Division of Ludlow Corp., Needham Heights, Mass.
- Forbes Amvent—Ventilators. Western Engineering & Mfg. Co., Venice, Calif.
- Forbes Econovent—Ventilators. Western Engineering & Mfg. Co., Venice, Calif.

Forbes Syphonaire—Ventilators. Western Engineering & Mfg. Co., Venice, Calif.
 Force-Flow—Wall Furnaces. Commonwealth Co., Alhambra, Calif.
 Formula 67—Sheet Metal Paint. Babbitt Chemical Co. Inc., New Bedford, Mass.
 Forsaire—Furnaces. Williams Furnace Co., Buena Park, Calif.
 Foundation Ctg.—Waterproofing. Philip Carey Mfg. Co., Cincinnati, O.
 4-Way-Flow—Registers. United States Register Co., Battle Creek, Mich.
 Fracto-Crete—Castable Refractories. Ramtite Co., Chicago, Ill.
 Fraser—Furnaces. Basford Mfg. Co., San Francisco, Calif.
 FreeExhaust—Roof Ventilators. Burt Mfg. Co., Akron, Ohio
 Free Flow—Filters. Wickford Products, Inc., Bronx, N. Y.
 Free Flow—Roof Ventilators. Burt Mfg. Co., Akron, Ohio
 Freeport—Oil Burners. Arrow Foundry Co., Freeport, Ill.
 Free-Vane—Controls. Bristol Co., Waterbury, Conn.
 Fre-Flow—Furnaces. Sequoia Mfg. Co., San Carlos, Calif.
 Freon—Refrigerants. E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.
 Frost-Tite—Copper Tube Fittings. Remco, Inc., Zelenople, Pa.
 Fuelatrol—Oil Burners, Furnaces and Stokers. Premium Coal & Oil Co., Cincinnati, Ohio.
 Fuel Door—Gas Burner. Handley-Brown Co., Jackson, Mich.
 Fuel-O-Meter—Fuel Oil Gages. Sid Harvey, Inc., Valley Stream, N. Y.
 Fuel-Saver—Draft Regulator. Walker Mfg. & Sales Corp., St. Joseph, Mo.
 Fueltone—Oil Tank Solvent. Ampion Corp., Long Island City, N. Y.
 Fuel-tron—Fuel Oil Tank Solvents. Radiator Specialty Co., Charlotte, N. C.
 Fullo—Oil Filters. Commercial Filters Corp., Melrose, Mass.
 Fulljet—Water Nozzles. Spraying Systems Co., Bellwood, Ill.
 Fulscope—Control Systems. Taylor Instrument Companies, Rochester, N.Y.
 Furnacestat—Controls. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Fuseair—Diffusers. Aladdin Heating Corp., Oakland, Calif.
 Fyr-Fly—Oil Burners. Breeze Corps., Inc., Newark, N. J.
 Fyre-Mortar—Insulating Cement. Quigley Co., Inc., New York, N. Y.
 Fyrite—CO₂ Analyzers. Bacharach Industrial Instrument Co., Pittsburgh, Pa.

G

G-6—Paint Spray Guns. Eclipse Air Brush Co., Newark, N.J.
 GAT—Paint Spray Guns. Eclipse Air Brush Co., Newark, N.J.
 G. B. C.—Blowers. General Blower Co., Inc., Philadelphia, Pa.
 G-B Duct—Non-Metallic Ducts. Gustin-Bacon Mfg. Co., Kansas City, Mo.
 G/C—Controls. General Controls Co., Glendale, Calif.
 G-E—Air Conditioning Units, Oil Burners, Heating and Cooling Coils, Compressors, Furnaces. General Electric Co., Bloomfield, N. J.
 G-E—Controls, Soldering Coppers, Motors, Transformers, Welders. General Electric Co., Apparatus Sales Offices, Schenectady, N. Y.
 G-E—Controls. General Electric Co., Appliance Control Dept., Morrison, Ill.

G-E—Germicidal Lamps. General Electric Co., Cleveland, Ohio.
 GFAS—Make-Up Air Units. L. J. Wing Mfg. Div., Aero Supply Mfg. Co., Inc., Linden, N. J.
 G.I.—Blowers. New York Blower Co., Chicago, Ill.
 GS—Anemometers, Thermometers, Hygrometers, Psychrometers, CO₂ Analyzers. General Scientific Equipment Co., Philadelphia, Pa.
 Galbestos—Roofing. H. H. Robertson Co., Pittsburgh, Pa.
 Galongage—Oil Tank Gauge. Applied Mechanics Co., Boston, Mass.
 Galva-Flux—Soldering Flux. London Chemical Co., Chicago, Ill.
 Galvaprep—Rust Preventive Chemicals. Neilson Chemical Co., Detroit, Mich.
 Galv-Kote—Zinc Paint. Geo. H. Ohmer Co., Dayton, Ohio.
 Gar Wood—Furnaces. Enico Products, Detroit, Mich.
 Gar Wood—Furnaces. Engineering Industries Co., Ltd., Toronto, Ont.
 Gasaver—Furnaces, Gas Burners. The Williamson Co., Cincinnati, Ohio.
 Gas Miser—Furnaces. Floral City Heater Div., United States Air Conditioning Corp., Monroe, Mich.
 Gas-O-Matic—Gas Burners & Furnaces. Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.
 Gasweld—Torches. General Dynamics Corp., Liquid Carbonic Div., Chicago.
 Gat Fasteners—Duct Hanging Clamps. Insulation and Sheet Metal Fastenings, Pronged Nuts. Geo. A. Tinnerman Corp., Cleveland, O.
 GearMotor—Electric Motors. Philadelphia Gear Corp., King of Prussia, Pa.
 Gear-O-Matic—Electric Motors. Franklin Electric Co., Inc., Bluffton, Ind.
 Gehl—Stokers. Eddy Stoker Corp., Wheeling, Ill.
 Gem—Gas Conversion Burners, Cooling Coils, Condensing Units, Furnaces, Air Conditioning Units. Columbia Burner Co., Toledo, O.
 Gemaco—Compressors. General Machinery Co., Spokane, Wash.
 Gemco—Insulation Fastenings. Goodloe E. Moore, Inc., Danville, Ill.
 Gemware—Hygrometers. Psychrometers, Thermometers. G. M. Mfg. Co., New York, N. Y.
 Genasco—Roof Cement and Roofing Felt. Keasby & Mattison Co., Ambler, Pa.
 General—Water Heaters. Republic Products Co., Philadelphia, Pa.
 General Handyman—Furnace Vacuum Cleaners. W. W. Meyer & Sons, Inc., Skokie, Ill.
 Genesolvs—Cleaning Compounds for Condensers and Coils. General Chemical Div., Allied Chemical Corp., New York, N. Y.
 Genetron—Refrigerants. General Chemical Div., Allied Chemical Corp., New York, N.Y.
 Genie-Air—Power Roof Ventilators. Genie Air Products Div. of N.T.W. Corp., Los Angeles, Calif.
 Genoco—Oil Burners. General Oil Heating Corp., West New York, N. J.
 Geon—Plastics. B. F. Goodrich Chemical Co., Cleveland, O.
 Germicidal—Sterilizing Lamp. General Electric Co., Cleveland, Ohio.
 Giant—Oil Burners. Breeze Corps., Inc., Newark, N. J.
 Gilbarco—Furnaces, Oil & Gas Burners. Gilbert & Barker Mfg. Co., West Springfield, Mass.

Gilco—Water Heaters. J. L. Gillen Co., Dowagiac, Mich.
 Gil Governoret—Gas Pressure Regulating Valves. Gas & Oil Industry Laboratories, Inc., Irvington, N. J.
 Gil Nohum—Valves. Gas & Oil Industry Laboratories, Inc., Irvington, N. J.
 Gilsalume—Paint. United Gilsonite Laboratories, Scranton, Pa.
 Glasbord—Plastic Panels. Kemlite Corp., Joliet, Ill.
 Glasfab—Roofing Felt. Lexsuo, Inc., Solon, O.
 Glasfloss—Air Filters. Pittsburgh Plate Glass Co., Pittsburgh, Pa.
 Glass Armor—Patching Material for Fuel Oil Tanks. Chicago Tank Lining Inc., Chicago, Ill.
 Glass Wool—Insulation. Eagle-Picher Co., Cincinnati, O.
 Glazola—Caulking Compounds. Nebel Mfg. Co., Cleveland, Ohio.
 Glo-Cone—Gas Burners. Geisel Mfg., Inc., Elyria, Ohio.
 Glo-Fyr—Oil Burners. Breeze Corps., Inc., Newark, N. J.
 Glo-Ring—Gas Burners. Lennox Industries Inc., Marshalltown, Iowa.
 Glowac—Gas Burners. J. O. Martin Co., Inc., San Francisco, Calif.
 Gnow-Jaw—Portable Electric Shears. Wood Enterprises, Inc., Dayton, O.
 Gnome—Oil Burners. Breeze Corps., Inc., Newark, N. J.
 Go-Eze—Damper Regulators. Severson Mfg. & Supply Co., Milwaukee, Wis.
 Gold Bond—Louvers and Shutters, Insulation. National Gypsum Co., Buffalo, N. Y.
 Gold Bond-Gimco—Rock Wool Products, Insulating Cement. National Gypsum Co., Buffalo, N. Y.
 Gordon—Gas Burner Pilot Controls, Gas Unit Heaters. Roberts-Gordon Appliance Co., Buffalo, N. Y.
 Gordon-Air—Furnaces. Roberts-Gordon Appliance Co., Buffalo, N. Y.
 Gordon Spreader-Flame—Gas and Gas-Oil Burners and Furnaces. Roberts-Gordon Appliance Corp., Buffalo, N. Y.
 Gradutrol—Pneumatic Controls. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Granodine—Coating Process. Amchem Products, Inc., Ambler, Pa.
 Greastop—Filters. Air-Maze Corp., Cleveland, Ohio.
 Green Hornet—Stud Guns. Mine Safety Appliances Co., Pittsburgh, Pa.
 Green-X—Refractories. A. P. Green Fire Brick Co., Mexico, Mo.
 Griploc—Flexible Duct Connections. Duro-Dyne Corp., Farmingdale, N. Y.
 Gripsco—Snips and Shears, Pliers, Wrenches. H. R. Basford Co., San Francisco, Calif.
 Guardian—Fuel Oil Tank Gages. Applied Mechanics Co., Boston, Mass.
 Gum-Bestos—Adhesive Tape for Ducts. Grant Wilson, Inc., Chicago, Ill.
 Gun-Heat—Gas Burners. Barber Mfg. Co., Cleveland, O.
 Gun Mix—Refractories. Ramtite Co., Div. S. Obermayer Co., Chicago, Ill.
 Gun-Ram—Refractories. Ramtite Co., Div. S. Obermayer Co., Chicago, Ill.
 Gusher—Evaporative Cooler Recirculating Pumps. Ruthman Machinery Co., Cincinnati, O.
 Gutter-Guard—Gutter Accessories. Accurate Sheet Metal & Mfg. Works, Chicago, Ill.
 Gutt'r Cut'r—Gutter Tools. Hughes Mfg. Co., Norfolk, Va.
 Gyra-Flow—Ventilators. Chicago Blower Corp., Franklin Park, Ill.

H

- H&C**—Damper Clips, Dampers, and Registers and Grilles. Hart & Cooley Mfg. Co., Holland, Mich.
- H&K**—Perforated Metals. Harrington & King Perforating Co., Inc., Chicago, Ill.
- H-M**—Gas Pressure Regulating Valves. Thermac Co., Corona, Calif.
- H-Panels**—Curtain Wall Panels. H. H. Robertson Co., Pittsburgh, Pa.
- Hair Glass**—Filters. H. J. Somers, Inc., Detroit, Mich.
- Halco**—Furnaces. Hall-Neal Furnace Co., Indianapolis, Ind.
- Hallmark**—Oil Burners, Furnaces. Heating Specialties Inc., Baltimore, Md.
- Hammer-Sets**—Expansion Bolts. Rawlplug Co., Inc., New York, N. Y.
- Hammock**—Throwaway Filters. Lennox Furnace Co., Marshalltown, Ia.
- Handlead**—Lead Roofing Sheets. National Lead Co., New York, N. Y.
- Handnib**—Punches and Shears. Heinrich Tools, Inc., Racine, Wis.
- Handomatic**—Welding Rod. Eutectic Welding Alloys Corp., Flushing, N. Y.
- Handy**—Duct, Duct Accessories, Furnace Pipe and Fittings. F. Meyer & Bro. Co., Peoria, Ill.
- Handy-Flux**—Soldering Flux. Handy & Harman, New York, N. Y.
- Hardlead**—Lead Roofing. National Lead Co., New York, N. Y.
- Hardy**—Button Presses and Squeezer Tongs. Interstate Drop Forge Co., Special Products Div., Milwaukee, Wis.
- Health-Air**—Electronic Air Cleaners. Mamco Corp., Racine, Wis.
- Hearth Crete**—Refractories. Quigley Co., Inc., New York, N. Y.
- Heat-Aid**—Refractories. Pyrolite Products Co., Cleveland, Ohio.
- Heat Chaser**—Air Conditioning Units. Harvey-Hill, Inc., St. Louis, Mo.
- Heat Eye**—Heating Plant Failure Alarms. Herbert Fuel Devices, Darien, Conn.
- Heat Holder**—Baffles. Sid Harvey, Inc., Valley Stream, N. Y.
- Heatilator**—Metal Fireplaces, Draft Dampers for Fireplaces. Vega Industries, Inc., Syracuse, N. Y.
- Heat-Pak**—Oil Burners, Water Heaters. Aldrich Co., Wyoming, Ill.
- Heat-Ren**—Aluminum Paint. Speco, Inc., Cleveland, Ohio.
- Heat-Rite**—Gravity Registers. Auer Register Co., Cleveland, Ohio.
- Heatsum**—Electric Heating Cable. Roberson Inc., Seattle, Wash.
- Heat Wagon**—Portable Furnaces. Lennox Industries, Inc., Marshalltown, Ia.
- Heatwave**—Air Conditioning Units, Floor and Wall Furnaces. Southwest Mfg. Co., Aurora, Mo.
- Heat-X-It**—Roof Ventilators. Octagon Ventilator Mfg. Co., Jackson, Tenn.
- Heavy Duty**—Pneumatic Hammers. Superior Pneumatic & Mfg., Inc., Cleveland, O.
- He-DeWe**—Fuel Unit Bellows. Sid Harvey, Inc., Valley Stream, N. Y.
- Heet-Master**—Kettles. Aeroil Products Co., Inc., South Hackensack, N. J.
- Heliarc**—Spot Welders. Linde Co., Div. Union Carbide Corp., New York, N. Y.
- Hellite**—Refractories. Johns-Manville, New York, N. Y.
- Helwig**—Button Presses and Squeezer Tongs. Interstate Drop Forge Co., Special Products Div., Milwaukee, Wis.
- Helyx**—Drive Screws, Nails. Hillwood Mfg. Co., Cleveland, Ohio.
- Heresite**—Pipe and Fittings. Heremetal Co., Minneapolis, Minn.
- Herkimer**—Cleaning Compounds, Water Conditioning Compounds. City Chemical Corp., New York, N. Y.
- Herman**—Skylight lifts. Main Cornice Works, Inc., Los Angeles, Calif.
- Herman Nelson**—Blowers, Fans, Gas Heaters. American Air Filter Co., Inc., Louisville, Ky.
- Hetron**—Polyester (fire-retardant) Resins. Durez Plastics Div., Hooker Chemical Corp., North Tonawanda, N. Y.
- Hex Mesh**—Skylight Wire Glass. American-St. Gobain Corp., New York, N. Y.
- Hi-Cor**—Solder. Alpha Metals, Inc., Jersey City, N. J.
- Hicycle**—Electric Tools. Chicago Pneumatic Tool Co., New York, N. Y.
- Hi-Degree**—Paint. Cheesman-Elliott Co., Inc., Brooklyn, N. Y.
- Hi-Dri**—Refrigerant Dehydrators. Wabash Corp., Chicago, Ill.
- Hi-Duty**—Copper Tube Fittings. Imperial Brass Mfg. Co., Chicago, Ill.
- Hi-Duty**—Combustion Chambers. Monogram Products Co., Philadelphia, Pa.
- Hi-Ex**—Fans and Roof Ventilators. Penn Ventilator Co., Inc., Philadelphia, Pa.
- High Alumina Plastic**—Refractories. A. P. Green Fire Brick Co., Mexico, Mo.
- High-Duty**—Humidifier Valves. Maid-O'-Mist, Inc., Chicago, Ill.
- High-Pressure Sealer**—Duct Joint Sealers. Insul-Cooustic Corp., Maspeth, N. Y.
- High-Ten-No. 500**—Flux. Industrial Service Laboratories, Milwaukee, Wis.
- Hi-Hoist**—Hand Operated Hoists for Sheet Metal Ducts. Lantz Mfg. Co., Inc., Valparaiso, Ind.
- Hilshair**—Rod Cutting Machines. John Ould (USA) Ltd., Mt. Vernon, N. Y.
- Hi-Man**—Alloy Plates. Inland Steel Co., Chicago, Ill.
- Hi-Rate**—Water Heaters. Holly-General Co., Pasadena, Calif.
- Hi Seal**—Copper Tube Fittings. Imperial Brass Mfg. Co., Chicago, Ill.
- Hi-Speed**—Electric Dimpler. York Electric Tool Co., York, Pa.
- Hi-Speed**—Nibblers, Slitters, Shears. Libert Machine Co., Green Bay, Wis.
- Hi-Speed**—Welding and Cutting Apparatus. Dockson Corp., Detroit, Mich.
- Hi-Temp**—Insulation. Philip Carey Mfg. Co., Cincinnati, O.
- Hi-Temp**—Sheet Metal Paint. Lester Laboratories, Inc., Atlanta, Ga.
- Hi-Thred**—Screws. Parker-Kalon Div. of General American Transportation Corp., Clifton, N. J.
- Hoffman**—Water Heaters. Clayton & Lambert Mfg. Co., Louisville, Ky.
- Hold Heat**—Soldering Coppers. Turner Brass Works, Sycamore, Ill.
- Holdowns**—Duct and Pipe Anchors. Accurate Sheet Metal & Mfg. Works, Chicago, Ill.
- Holegrip**—Sheet Metal Fastenings. Fabricated Products Co., West Newton, Pa.
- Holesaws**—Saw Attachment. Millers Falls Co., Greenfield, Mass.
- Holly Glen**—Water Heaters. Hollywood Water Heater Co., Los Angeles, Calif.
- Holtite**—Screws. Continental Screw Co., New Bedford, Mass.
- Home**—Oil Burners. Sid Harvey, Inc., Valley Stream, N. Y.
- Home Weathermaker**—Air Conditioning Units. Carrier Corp., Syracuse, N. Y.
- Horneblende**—Roof Cement, Waterproofing. North American Mogul Products Co., Cleveland, O.
- Hornlume**—Roofing Paint. A. C. Horn Co., North Bergen, N. J.
- Hornvinyl**—Waterproofing Material. A. C. Horn Co., Inc., North Bergen, N. J.
- Hostess**—Gas Water Heaters, Luxra Co., Atchison, Kans.
- Hot Blast**—Furnace Cement. Philip Carey Mfg. Co., Cincinnati, Ohio.
- Hot-Flo**—Gas Water Heaters. Hoyt Heater Co. of No. Calif., Oakland, Calif.
- Hot Spot**—Electric Welders. Acme Electric Welder Co., Los Angeles, Calif.
- Howell**—Oil Burners. Kol-Master Corp., Oregon, Ill.
- Huber**—Overfeed Stokers. Flynn & Emrich Co., Baltimore, Md.
- Humiclean**—Cleaning Compound. Carolina Aniline & Extract Co., Charlotte, N. C.
- Humid-Air**—Evaporative Humidifiers. Hansen Tool & Die Co., Milwaukee, Wis.
- Humidex**—Water Conditioning Compounds for Humidifiers. Skuttle Mfg. Co., Milford, Mich.
- Humidigraph**—Hygrometers. Bristol Co., Waterbury, Conn.
- Humidiguid**—Humidistats. Taylor Instrument Companies, Rochester, N. Y.
- Humidimatic**—Furnace Humidifiers. Skuttle Mfg. Co., Milford, Mich.
- Humidomist**—Nozzles. Supreme Elec. Products Corp., Rochester, N. Y.
- Humidostat**—Hygrometers. Johnson Service Co., Milwaukee, Wis.
- Hum-I-Dri**—Dehumidifiers. Speco, Inc., Cleveland, O.
- Humid-u-stat**—Humidistat. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
- Humistat**—Humidistats. Hygro-dynamics, Inc., Silver Spring, Md.
- Husky**—Presses and Dies. Fallsington Mfg. Co., Fallington, Pa.
- Husky-Lite**—Combination Machines. Maplewood Div., Rockford Machine Tool Co., Rockford, Ill.
- Hydralloy**—Galvanizing Compounds. A. L. Okun Co., Inc., So. Ozone Park, N. Y.
- Hydralt**—Waterproofing. Flintkote Co., New York, N. Y.
- Hydrator**—Gas Pressure Regulating Valves. General Controls Co., Glendale, Calif.
- Hydraulic Action**—Controls. White-Rodgers Co., St. Louis, Mo.
- Hydrocide**—Waterproofing. L. Sonnenborn Sons, Inc., New York, N. Y.
- Hydronon**—Waterproofing. Barret Div., Allied Chemical Corp., New York, N. Y.
- Hydro-Spray**—Furnace Humidifiers. Pelna Engineering Corp., Philadelphia, Pa.
- Hydro-T-Metal**—Zinc Sheets. Illinois Zinc Co., Div. of Hydrometals Inc., Chicago, Ill.
- Hydro-Whirl**—Dust Collectors. The DeVilbiss Co., Metal Fabricators Div., Detroit, Mich.
- Hyduty**—Ventilators. Davidson Roof Fan Co., Newton, Mass.
- Hygeaire**—Air Sterilizers. Atlantic Ultraviolet Co., Inc., Long Island City, N. Y.
- Hygrothermograph**—Humidity Recorders. Fries Instrument Div., Bendix Aviation Corp., Baltimore, Md.
- Hy-Power**—Snips and Shears. Wiss & Sons Co., J. Newark, N. J.
- Hyspar**—Cements, Caulking Compounds. Roof Paints. The Harrison Paint & Varnish Co., Midland Industrial Div., Canton, O.
- Hytampite**—Furnace Cement. Quigley Co., Inc., New York, N. Y.

IC-Pak—Evaporative Cooler Mats. Palmer Industries, Inc., Phoenix, Ariz.
I.P.F.—Fans, Non-Metallic Duct. Industrial Plastic Fabricators, Inc., Norwood, Mass.
I P M—Roof Cement, Caulking Compounds, Paint. Iowa Paint Mfg. Co., Inc., Des Moines, Ia.
IVCO—Ventilators. Iona Ventilator Co., Inc., Philadelphia, Pa.
Ideal—Furnace Brushes. Worcester Brush & Scraper Co., Div. Mason Worcester Brush Co., Worcester, Mass.
Ideal—Nozzle extractor. Boston Machine Works Co., Lynn, Mass.
Ideal—Furnace Pipe and Fittings. Riggins Metal Products, Inc., Kankakee, Ill.
Ideal—Roofing Nails. Tennessee Coal and Iron Div., U. S. Steel Corp., Fairfield, Ala.
Idealarc—Arc Welders. Lincoln Electric Co., Cleveland, O.
Idler—Recirculating Pumps. G & S Mfg. Co., Phoenix, Ariz.
Ilgette—Kitchen Exhaust Fans. Ilg Electric Ventilating Co., Chicago, Ill.
Illbronze—Aluminum Paste and Powder. Illinois Bronze Powder Co., Inc., Chicago, Ill.
Immersatherm—Domestic Hot Water Control. Mercoid Corp., Chicago, Ill.
Imperial—Furnaces. H. C. Little Burner Co., Inc., San Rafael, Calif.
Imperial—Evaporative Coolers. International Metal Products Div., McGraw-Edison Co., Phoenix, Ariz.
Imperial—Baseboard Diffusers. Krauser-Boyd, Inc., North Tonawanda, N. Y.
Imperial—Registers. Vectaire Mfg. Co., Melrose, Mass.
Imperial—Furnaces. The Payne Co., La Puente, Calif.
Imperial—Sheet Metal Awnings. Air Control Products, Inc., Coopersville, Mich.
Imperial—Furnaces. North Coast Mfg. Corp., Portland, Ore.
Imperial Speedmaster—Gas Water Heaters. Handley-Brown Co., Jackson, Mich.
Incino-Flame—Gas Burners. Bryant Industrial Products Corp., Cleveland, O.
Inco—Paints, Sound Deadener. Inter-Coastal Paint Co., East St. Louis, Ill.
Inco—Ventilators. Iona Ventilator Co., Inc., Philadelphia, Pa.
Inconel—Alloy Plates, Sheets, Tubing, Electrodes. International Nickel Co., Inc., New York, N. Y.
Indeeco—Electric Duct Heaters. Industrial Engineering and Equipment Co., Brentwood, Mo.
Indoor-Outdoor—Thermostats. White-Rodgers Co., St. Louis, Mo.
Industrial Air—Furnaces, Heaters. Inland Heater Corp., St. Paul, Minn.
Industrial Air—Fans, Propeller Fan Blades, Louvers & Ventilators. Harvey P. Bertram Co., Cincinnati, Ohio.
Ingalls—Furnace Brushes. Worcester Brush & Scraper Co., Div. Mason Worcester Brush Co., Worcester, Mass.
Inlock—Molded Sealants. Inland Mfg. Div., General Motors Corp., Dayton, O.
Insa-Late—Insulating Cement. Sauereisen Cements Co., Pittsburgh, Pa.
Insta-Curb—Roof Ventilator Curbs. Swartwout Fabricators, Inc., Kokomo, Ind.
Instant-Glo—Combustion Chambers. Boston Machine Works Co., Lynn, Mass.
Instant Vane Rail—Vane Rails. Cain Mfg. Inc., Birmingham, Ala.

Inst-O-Verse—Electric Motors. Franklin Electric Co., Inc., Bluffton, Ind.
Insulag—Insulation and Insulating Cement. Quigley Co., Inc., New York, N. Y.
Insulbrix—Refractories. Quigley Co., Inc., New York, N. Y.
Insulfil—Insulation. Refractory & Insulation Corp., New York, N. Y.
Insulkote—Waterproofing. Johns-Manville, New York, N. Y.
Insul-Pin—Insulation Fastenings, Welders. Graham Mfg. Corp., Needham Hts., Mass.
Insul-Stic—Insulation Adhesives. Eagle-Picher Co., Cincinnati, O.
Insul Tex—Building Insulation. Insul-Wool Insulation Co., Council Bluffs, Ia.
Insul-Wool—Building Insulation. Insul-Wool Insulation Co., Council Bluffs, Ia.
Integral Twin Rail—Vibration Isolating Bases and Pads. Korfund Co., Westbury, L.I., N. Y.
Interlox—Hose and Fittings. International Metal Hose Co., Bellevue, O.
Intermatic—Time Switches, Electric Motors. International Register Co., Chicago, Ill.
International—Oil Tank Gauge. Applied Mechanics Co., Boston, Mass.
Intru-lok—Copper Tube Fittings. Parker Fittings & Hose Div., Parker-Hannifin Corp., Cleveland, O.
Inversaire—Furnaces. Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.
In Wall—Unitary Air Conditioners. I. W. Air Conditioning Corp., Bronx, New York.
Ironhide—Paint. Pittsburgh Plate Glass Co., Pittsburgh, Pa.
Ironweld—Cast Iron Welding Flux. Rexarc, Inc., Sight Feed Generator Div., West Alexandria, Ohio.
Island City—Registers. Rock Island Register Co., Rock Island, Ill.
Isomode—Vibration Pads. MB Electronics, A Div. of Tectron Electronics, Inc., New Haven, Conn.
Isotron—Refrigerants. Pennsalt Chemicals Corp., Philadelphia, Pa.

J

JE—Furnace Pipe and Fittings, Solenoid Valves. Jacks-Evans Mfg. Co., St. Louis, Mo.
J. & H.—Electric Motors. Jack & Heintz, Inc., Cleveland, Ohio.
J-M—Insulation, Roofing Felt, Asbestos Paper. Johns-Manville, New York.
JPS—Pillow Block Bearings. Link-Belt Co., Chicago, Ill.
Jal-Con-Weld—Steel Tubing. Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Jalloy—Alloy Plates. Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Jalten—Steel Plates. Jones & Laughlin Steel Corp., Pittsburgh, Pa.
JalZinc—Metal Sheets. Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Janette—Blower Wheels and Housings. Jan-Air, Inc., Richmond, Ill.
Jet-S—Gas Burners. Banner Burner Co., Youngstown, O.
Jet-Blend—Air Diffusers. Jet-Heat, Inc., Englewood, N. J.
Jet-Cool—Air Conditioners. Jet-Heat, Inc., Englewood, N. J.
Jet Flux—Flux. All-State Welding Alloys Co., Inc., White Plains, N. Y.
Jetglas—Gas Unit Heaters. Day & Night Mfg. Co., La Puente, Calif.
Jet-line—Combustion Chambers. Grant

Wilson, Inc., Chicago, Ill.
Jetolator—Roof Ventilators, Vent Caps. Accurate Sheet Metal & Mfg. Works, Chicago, Ill.
Jet Room Balancer—Air Balancing Systems. Viking Air Products Div. of The Lau Blower Co., Cleveland, O.
Jettroaire—Burners, Ducts and Duct Fittings, Furnaces, Furnace Pipe and Fittings. Steel City Furnace Corp., Springdale, Pa.
Jet Tubing—Flexible Ducts. Jet-Heat, Inc., Englewood, N. J.
Jiffy—Roof Flashing. Simplex Mfg. Co., Fond du Lac, Wis.
Jiffy—Damper Clips and Tips, Duct Damper Regulators. Duro-Dyne Corp., Farmingdale, N. Y.
Jiffy-Lift—Elevating Tailgate for Trucks. Mid West Body & Mfg. Co., Paris, Ill.
Jointite—Insulation. Mundet Cork Corp., North Bergen, N. J.
Jumbo—Oil Burners. Breeze Corps., Inc., Newark, N. J.
June-Aire—Furnaces. American Foundry & Furnace Co., Bloomington, Ill.
Junior—Flexible Duct Connections. Duro-Dyne Corp., Farmingdale, N. Y.
Junior—Roof Ventilators. Octagon Ventilator Mfg. Co., Jackson, Tenn.
Jupiter—Water Heaters. Day & Night Mfg. Co., La Puente, Calif.
JusRite—Ducts, Dampers, Duct Connectors, Furnace Pipe and Fittings. Corbman Bros., Inc., Philadelphia, Pa.
JusRite L-Bo—Furnace Pipe and Fittings. Corbman Bros., Inc., Philadelphia, Pa.

K

KD-2—Refractories. A. P. Green Fire Brick Co., Mexico, Mo.
K&M—Insulation. Keasbey & Mattison Co., Ambler, Pa.
KMP—Refrigerant Dehydrator. Kenmore Machine Products, Inc., Lyons, N. Y.
KO—Hoists. Stephens-Adamson Mfg. Co., Aurora, Ill.
KRW—Press Brake. K. R. Wilson, Inc., Arcade, N. Y.
KX-99—Refractories. A. P. Green Fire Brick Co., Mexico, Mo.
Kango—Electric Hammers. Porter-Cable Machine Co., Syracuse, N. Y.
Kant Krush—Roof Strainers. Haven-Busch Co., Grandville, Mich.
Kar-Ry—Bench Shears. E. V. Nielsen, Inc., Stamford, Conn.
Kathabar—Dehumidifiers. Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., Columbus, O.
Kaukit—Caulking Compound. L. Sonneborn Sons, Inc., New York, N. Y.
Kay-Vee—Aluminum Awnings. Koolvent Metal Awnings Corp. of America, Pittsburgh, Pa.
Keldur—Vibration Isolators. Quimby & Co., Chester, N. J.
Ken—Solvents, Baffles, Fuel Oil Tank Gauges. Robert Barclay, Inc., Chicago.
Kernerator—Incinerators. Kerner Incinerator Div., Morse-Boulger, Inc., New York, N. Y.
Key-Hak—Metal Cutting Saw Attachment for Electric Drill. Producers & Distributors, Inc., Allentown, Pa.
Keystone—Flashings. Revere Copper and Brass, Inc., New York, N. Y.
Keystone—Water Heaters. Bastian-Morley Co., Inc., LaPorte, Ind.
King Gauge—Tank Gauge. Oil Equipment Mfg. Co., New Haven, Conn.
King-Kool—Fans. Belco Industries, Inc., St. Louis, Mo.
King Pin—Heat Recoverers. Therm Gas Generator Co., Inc., Seattle, Wash.

Kirksite—Zinc Sheets. Morris P. Kirk & Son, Inc., Los Angeles, Calif.
 Kirkson—Flux, Solder. Morris P. Kirk & Son, Los Angeles, Calif.
 Kitchen-Aire—Ventilating Hoods, Kitchen Fans. Stewart Industries, Inc., Indianapolis, Ind.
 Kitch-N-Ventor—Fans. Universal Blower Co., Birmingham, Mich.
 Kleen-Aire—Furnaces. Steel City Furnace Co., Springdale, Pa.
 Kleenflo—Filters. Air-Maze Corp. Cleveland, Ohio.
 Kleen-Heat—Oil Burners. Automatic Burner Corp., Chicago, Ill.
 Kleenit—Oil Burner Tank Solvent, Soot Remover. Red Wing Oil Burner Co., Inc., Medford, Mass.
 Kleenmaster—Furnace Vacuum Cleaners. Molloy Sales Corp., Chicago, Ill.
 Klenk's—Snips. W. H. Compton Shear Co., Newark, N. J.
 Kling Felt—Gaskets. Products Research Co., Burbank, Calif.
 Klixon—Controls. Metals & Controls, Div., Texas Instruments Inc., Versailles, Ky.
 Klondike—Welders. Ralph Fern, Scranton, Pa.
 K-Matic—Pneumatic Drills. Gardner-Denver Co., Quincy, Ill.
 Kno-Draft—High Velocity Air Diffusers; Heating, Ventilating and Air Conditioning Grilles and Registers; and Sound and Volume Control Mixing Units. Connor Engineering Corp., Danbury, Conn.
 Kolbkast—Combustion Chambers. Kolb Refractories Co., Philadelphia, Pa.
 Kolbkast—Combustion Chambers. A. R. Webber Co., Inc., New Haven, Conn.
 Kolstoker—Stokers. Anchor Stove & Range Co., New Albany, Ind.
 Kompo-Kork—Vibration Isolating Pads. Korfund Co., Inc., Long Island City, N. Y.
 Kooler-Aire—Air Conditioning Units, Condensers. U. S. Air Conditioning Corp., Delaware, O.
 Kooler-Kote—Sheet Metal Paint. Petroleum Chemicals, Inc., Fresno, Calif.
 Koolite—Torches. National Welding Equipment Co., San Francisco, Calif.
 Kool Kastle—Air Conditioning Units, Condensing Units. Kool Engineering Corp., Chicago, Ill.
 Koolmaster—Fans. Air Equipment Co., Inc., Chicago, Ill.
 Kool-Pak—Air Conditioning Units. Midwest Automatic Control Co., Des Moines, Iowa.
 Kool-Temp—Air Conditioning Units. Midwest Automatic Control Co., Des Moines, Iowa.
 Kopro-C.P.-15—Roof Cement. Philip Carey Mfg. Co., Cincinnati, Ohio.
 Koroseal PVC—Plastic Sheets, Tubing, Fittings and Valves. B. F. Goodrich Industrial Products Co., Akron, O.
 Korth—Oil Fired Water Heaters. Eckhart Mfg. Co., Inc., Union, N. J.
 Kover-Lum—Colored Aluminum Siding. U. S. Aluminum Siding Corp., Franklin Park, Ill.
 Krack—Coils, Condensers, Unitary Air Conditioners. Refrigeration Appliances, Inc., Chicago, Ill.
 Kres-Kno Perco-Flash—Water Heaters. Kresno-Stamm Co., New York, N. Y.
 Krome-Kote—Metal Cleaners. Wolfe-Kote Co., Sheboygan, Wis.
 Kruzite—Refractories. A. P. Green Fire Brick Co., Mexico, Mo.
 Kurlicue—Aluminum Nails. Independent Nail & Packing Co., Bridgewater, Mass.
 Kwik—Flux. M. W. Dunton Co., Providence, R. I.

Kwik-Bond—Adhesives. Columbia Cement Co., Inc., Brooklyn, N. Y.
 Kwik-Fit—Prefabricated Plenum Chambers. Maurlee Co., Inc., Woodbury Heights, N. J.
 Kwikflo Flux—Soldering Flux. London Chemical Co., Melrose Park, Ill.
 Kwikhanger—Duct Hanger. Lane Sheet Metal, Minot, N. D.
 Kwik-Melter—Roofers' Kettles. Littleford Bros., Inc., Cincinnati, Ohio.
 Kwik-Tite—Copper Tube Fittings. Imperial Brass Mfg. Co., Chicago, Ill.
 Kwik-Way—Damper Regulators. Hart & Cooley Mfg. Co., Holland, Mich.

L

LA—Motors. Louis Allis Co., Milwaukee, Wis.
 L-M—Tubing. Lewin-Mathes Co., St. Louis, Mo.
 L & N—Thermometers. Leeds & Northrup Co., Philadelphia, Pa.
 L-U—Gravity Roof Ventilators. Hirschman-Pohle Co., Inc., LeRoy, N. Y.
 La-Co—Soldering Flux. Lake Chemical Co., Chicago, Ill.
 Lac-O-Nu—Metal Cleaner. NuSteel Co., Chicago, Ill.
 Lacq—Lacquers. Glidden Company, Cleveland, Ohio.
 Lactile—Roofing Felt. Philip Carey Mfg. Co., Cincinnati, Ohio.
 Lagz—Insulation Adhesive. West Chester Chemical Co., West Chester, Pa.
 Laminar-Flo—Duct Fittings. United Sheet Metal Co., Inc., Columbus, O.
 Lancol—Stainless Steel Soldering Flux. F. H. Langenkamp Co., Indianapolis, Ind.
 Lap-Drain—Aluminum Roofing. Nichols Wire & Aluminum Co., Davenport, Ia.
 Lascolite—Plastic Panels. Lasco Industries, Montebello, Calif.
 Lascopipe—Plastic Tubing. Lasco Industries, Montebello, Calif.
 Lastile—Roofing Felt. Philip Carey Mfg. Co., Cincinnati, Ohio.
 Laund-R-Vent—Laundry Dryer Vent System. Cole-Sewell Engineering Co., St. Paul, Minn.
 Lawson—Unitary Air Conditioners. Westprest Inc., Amarillo, Tex.
 Leader—Water Heaters. Day & Night Mfg. Co., La Puente, Calif.
 Lead-Seal—Roofing Nails. The Deniston Co., Chicago, Ill.
 Leadtex—Lead-Coated Sheets. Revere Copper & Brass Inc., New York, N. Y.
 Leastoker—Stokers. H. Leslie Leas Co., Monona, Iowa.
 Lectrodryer—Dehumidifier. Pittsburgh Lectrodryer Co., Pittsburgh, Pa.
 Lectrofilter—Electronic Air Cleaners. Albion Div., McGraw-Edison Co., Albion, Mich.
 Lectro-Lok—Pittsburgh Lock Seamers. Millers Falls Co., Greenfield, Mass.
 Lectro Spot—Welders. Miller Electric Mfg. Co., Inc., Appleton, Wis.
 Leigh—Shutters, Awnings, Canopies, Fans, Ventilators, Ventilating Hoods for Kitchens, Vent Systems for Laundry Dryers. Air Control Products, Inc., Coopersville, Mich.
 Lenox—Saw Blades. American Saw & Mfg. Co., Inc., Springfield, Mass.
 Leonard—Water Heaters and Window Air Conditioning Units. Kelvinator Div., American Motors Corp., Detroit, Mich.
 Lesto—Electric Shears, Electric Buffers, Grinders, Polishers and Sanders. Victor J. Krieg, Inc., New York, N. Y.

Levelometer—Oil Tank Gauges. Liquidometer Corp., Long Island City, N. Y.
 Lexan—Phenolic and Polycarbonate Resins. General Electric Co., Chemical Materials Dept., Pittsfield, Mass.
 Leytool—Hack Saw. Halbee Products Co., Parma, Mich.
 Liberty—Furnaces. Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Liberty—Caulking Compound, Roof Cement, Paint, Waterproofing. Carter Paint Co., Inc., Liberty, Ind.
 Liberty—Ventilators. Penn Ventilator Co., Inc., Philadelphia, Pa.
 Lifeguard—Furnaces. Day & Night Mfg. Co., La Puente, Calif.
 Lifeline "A"—Motors. Westinghouse Electric Corp., Pittsburgh, Pa.
 Lifelong—Filters. George Evans Corp., Moline, Ill.
 Lifetime—Air Filters. Permatron Corp., Chicago, Ill.
 Lifetime—Roofing, Gutters and Gutter Accessories. Reynolds Metal Co., Richmond, Va.
 Lift Gate—Elevating Tail Gate for Trucks. Anthony Co., Sreator, Ill.
 Lightening Hole—Punches. Merchandising and Manufacturing Associates, Inc., Lancaster, Pa.
 Lincoln—Air Conditioning Units. Forston Co., Houston, Tex.
 Lincolnweld—Arc Welders. The Lincoln Electric Co., Cleveland, Ohio.
 Lincwelder—Arc Welders. Lincoln Electric Co., Cleveland, Ohio.
 Line-Air—Air Diffusers. Universal Diffuser Corp., Tuckahoe, N. Y.
 Linex—Roof Ventilators. Penn Ventilator Co., Inc., Philadelphia, Pa.
 Line-O-Flo—Diffusers. Barber-Colman Co., Rockford, Ill.
 Liquid Red—Arc Welders. General Dynamics Corp., Liquid Carbonic Div., Chicago, Ill.
 Liquidweld—Torches. General Dynamics Corp., Liquid Carbonic Div., Chicago, Ill.
 Liquid Wrench—Rust Preventive Chemicals. Radiator Specialty Co., Charlotte, N.C.
 Liquidflux—Flux. Rexarc Inc., Sight Feed Generator Div., West Alexandria, O.
 Lite-Cast—Combustion Chambers. Monogram Products Co., Philadelphia, Pa.
 Lite Master—Skylights. Vent-O-Lite Co., Chicago, Ill.
 Lite-N-Air—Roof Ventilators. Swartwout Fabricators, Inc., Kokomo, Ind.
 Litex—Roof Ventilators. Penn Ventilator Co., Inc., Philadelphia, Pa.
 Lithoform—Coating Chemical for Galvanized, Zinc or Cadmium surfaces. Amchem Products, Inc., Ambler, Pa.
 Little Blacksmith—Punches and Slitting Machines. J. F. Kidder Mfg. Co., Inc., Burlington, Vt.
 Little Gem—Gas Burner. Columbia Burner Co., Toledo, Ohio.
 Liv-Air—Furnaces. Livingston, Inc., Marshall, Mich.
 Living Air—Furnaces, Unitary Air Conditioners. Mayflower Air Conditioners, Inc., St. Paul, Minn.
 Lloyd's—Soldering Flux. Johnson Mfg. Co., Inc., Mount Vernon, Iowa.
 Load-Lift—Warehouse Trucks. American Pulley Co., Philadelphia, Pa.
 Lo-Blast—Gas Burners. Mid Continent Metal Products Co., Chicago, Ill.
 Lo-Boy—Stokers. Whiting Corp., Harvey, Ill.
 Lockaire—Building Insulation. Plastergon Wall Board Co., Buffalo, N. Y.
 Lock-Joint—Furnace Pipe and Fittings, Duct and Duct Accessories. Inland Steel Products Co., Milwaukee, Wis.

Lock-Seam—Blow Pipe Fittings. Chicago Metal Mfg. Co., Chicago, Ill.
 Lodestar—Hoists. Chisholm-Moore Hoist Div., Columbus McKinnon Chain Corp., Tonawanda, N. Y.
 Lo-Hed—Electric Hoists. American Engineering Co., Div. of United Industrial Corp., Philadelphia, Pa.
 Lo-K—Building and Duct Insulation. Lockport Mills, Inc., Lockport, N. Y.
 Lone Star—Refractories. A. P. Green Fire Brick Co., Mexico, Mo.
 Longhorn—Water Heaters. Hotstream Heater Co., Cleveland, Ohio.
 Loop-the-Loop—Snow Guards. Danzer Metal Works Co., Hagerstown, Md.
 Lo-Pilot—Water Heaters. Allen Mfg. Co., Inc., Nashville, Tenn.
 Lo-Set—Stokers. Canton Stoker Corp., Canton, Ohio.
 Louvent—Roof Ventilators. Octagon Mfg. Co., Jackson, Tenn.
 Louverail—Louver Rails. Cain Mfg. Inc., Birmingham, Ala.
 Lovejoy-Ideal—V-belts. Lovejoy Flexible Coupling Co., Chicago, Ill.
 Lo-Vent—Gravity Roof Ventilators. American Foundry & Furnace Co., Bloomington, Ill.
 Low Contour DynaFan—Roof Ventilators. Penn Ventilator Co., Inc., Philadelphia, Pa.
 Lowline—Roof Ventilators. Swartwout Fabricators, Inc., Kokomo, Ind.
 Lown—Slip Roll Forming Machines. San Angelo Foundry & Machinery Co., San Angelo, Tex.
 Low Type—Roof Ventilators. Burt Mfg. Co., Akron, Ohio.
 Luco—Acid Brushes, Flux, Solder. Thos. F. Lukens Metal Co., Philadelphia, Pa.
 Lumaskin—Building Insulation. Ludlow Papers, A Division of Ludlow Corp., Needham Heights, Mass.
 Lume-Brite—Aluminum Cleaning Compounds. Brulin & Co., Inc., Indianapolis, Ind.
 Lume-Tex—Aluminum Paint. Truscon Laboratories, Detroit, Mich.
 Lumishade—Awnings, Canopies. Mapes Industries, Inc., Lincoln, Nebr.
 Lustralumin—Aluminum Paint. Blue Ridge Talc Co., Inc., Henry, Va.
 Luxaire—Blower-Filter, Units Burners, Furnaces, Furnace Pipe and Fittings, Incinerators. The C. A. Olsen Mfg. Co., Elyria, Ohio.
 Lyfanite—Rust Preventive Chemicals. Neilson Chemical Co., Detroit, Mich.
 Lyonore—Sheets. Lyon-Conklin & Co., Inc., Baltimore, Md.
 Lyston—Soldering Flux. Farrelloy Co., Inc., Philadelphia, Pa.
 Lytestone—Soldering Flux, Tinning Baths. Farrelloy Co., Inc., Philadelphia, Pa.

M

MAC—Air Conditioning Units for Military Applications. Airflow Co., Rockville, Md.
 M-Cals—Nameplates. Anodyne, Inc., Div. North Shore Nameplate, Inc., Bayside, L.I., N. Y.
 M. E.—Motors. Marathon Electric Mfg. Corp., Wausau, Wis.
 MG-Panels—Curtain Wall Panels. H. H. Robertson Co., Pittsburgh, Pa.
 MGO Combination—Gas-Oil Burners. Mettler Co., Inc., The, Los Angeles, Calif.
 M-H—Controls. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 M&M—Valves. McDonnell & Miller, Inc., Chicago, Ill.

M-Panels—Curtain Wall Panels. H. H. Robertson Co., Pittsburgh, Pa.
 M-R—Wire Glass. H. H. Robertson Co., Pittsburgh, Pa.
 M & T—Arc Welders. Metal & Thermit Corp., Rahway, N. J.
 M/W—Filters. American Air Filter Co., Inc., Louisville, Ky.
 MW-50—Insulating Cement. Philip Carey Mfg. Co., Cincinnati, O.
 MW-One—Insulating Cement. Philip Carey Mfg. Co., Cincinnati, O.
 Macheta—Fans, Fan Blades, Ventilators. Aerovent Fan Co., Piqua, Ohio.
 Magic Dial—Control Systems. Midwest Automatic Control Co., Des Moines, Iowa.
 Magna-Bar—Sludge and Corrosion Controller for Fuel Oil Tanks. Johns Mfg. Co., Middlesex, N. J.
 Magnehelic—Draft Indicating Gages. F. W. Dwyer Mfg. Co., Michigan City, Ind.
 Magne Patch—Tank Patching Materials. Tankit Co., Inc., Newark, N. J.
 Magnetic—Water Conditioners. Evis Mfg. Co., San Francisco, Calif.
 Magnetool—Magnetic Floor Sweepers, Magnetic Lifters. Multifinish Mfg. Co., Detroit, Mich.
 Mainline—Controls. White-Rodgers Co., St. Louis, Mo.
 Mainliner—Fan Blades. Russell Coil Co., Santa Fe Springs, Calif.
 Maintz—Caulking Compounds, Paints. West Chester Chemical Co., West Chester, Pa.
 Majestic—Through Wall Flashings. C. G. Hussey & Co., Pittsburgh, Pa.
 Manganend—Welding Rod. Arcos Corp., Philadelphia, Pa.
 Marco—Kitchen Exhaust Fans and Ventilating Hoods. Marvin Electric Mfg. Co., Los Angeles, Calif.
 Marcolite—Skylights and Roof Ventilators. Marco Co., East Orange, N. J.
 Marfaid—Solenoid Valve. Hays Mfg. Co., Erie, Pa.
 Marietta—Enamels and Lacquers. American-Marietta Co., Chicago, Ill.
 Mark Time—Time Switches. M. H. Rhodes, Inc., Hartford, Conn.
 Marsalis Chubby—Floor Furnace. American Metal Products Co., Forth Worth, Texas.
 Martin—Furnaces, Incinerators. King Stove and Range Co., Sheffield, Ala.
 Marvail—Duct Blowers, Cooling Coils, Furnaces, Unitary Air Conditioners. Muncie Gear Works, Cordele, Ga.
 Marvel—Water Heaters. Bastian-Morley Co., Inc., La Porte, Ind.
 Mary-Mac—Storage Water Heaters. McDaniel Mfg. Co., Inc., Dallas, Texas.
 Masco—Duct, Duct Accessories and Furnace Pipe and Fittings. Creamer Industries, Inc., Maxwell Steel Div., Fort Worth, Tex.
 Master—Circles, Hangers and Fittings. Royal-Apex Mfg. Co., Inc., Brooklyn, N. Y.
 Master—Evaporative Coolers. Essick Mfg. Co., Los Angeles, Calif.
 Master—Dust Collectors. Kindt-Collins Co., Cleveland, O.
 Master—Furnaces. Day & Night Mfg. Co., La Puente, Calif.
 Master Blower-Trol—Thermostatic Hydraulic Control. White Mfg. Co., St. Paul, Minn.
 Masterline—Fan and Blower Balancing Equipment. Gisholt Machine Co., Madison, Wis.
 Master Poly-Trol—Shut Off Valves. Handley-Brown Co., Jackson, Mich.
 Master Vac—Furnace Vacuum Cleaners. Premier Co., St. Paul, Minn.

Mastic Board—Insulation. Keystone Asphalt Products Co., Chicago, Ill.
 Maxaw—Electric Saws. Cummins Portable Tools, Div. of John Oster Mfg. Co., Milwaukee, Wis.
 McKee—Gas Burners. Eclipse Fuel Engineering Co., Rockford, Ill.
 Mecco—Doors and Shutters, Skylights, Ventilators. Moeschel-Edwards Co., Inc., Cincinnati, Ohio.
 Meco—Flux, Torches. Modern Engineering Co., St. Louis, Mo.
 Meco Jiffy—Soldering Torches. Modern Engineering Co., St. Louis, Mo.
 Meletron—Controls. Barksdale Valves, Los Angeles, Calif.
 Metal-Aire—Wall and Ceiling Diffusers, Heating and Air Conditioning Grilles. Metal Industries, Inc., Clearwater, Fla.
 Metalbestos—Gas Vents, Chimney Caps, Flashings, Pipe and Fittings. William Wallace Co., Belmont, Calif.
 Metaleaf—Aluminum Paint. Pittsburgh Plate Glass Co., Pittsburgh, Pa.
 Metalene—Cleaning Compound. Lester Laboratories, Inc., Atlanta, Ga.
 Metal-Fab—Flexible Duct Connections. Duro-Dyne Corp., Farmingdale, N. Y.
 Metallite—Paints. Glidden Co., Cleveland, Ohio.
 Metal Master—Snips and Shears. J. Wiss & Sons Co., Newark, N. J.
 Metalprep—Rust Preventive Chemicals. Neilson Chemical Co., Detroit, Mich.
 Metalset—Caulking Compounds. Smooth-on Mfg. Co., Jersey City, N. J.
 Metal Worker—Power Nibbling Machine. Homstrand Machine Tool Corp., Greenwich, Conn.
 Metal Zipper—Arc Welders. Mid-States Welder Mfg. Co., Chicago, Ill.
 Meteor—Hoists. Chisholm-Moore Hoist Div., Columbus McKinnon Chain Corp., Tonawanda, N. Y.
 Metcap—Chimney Caps and Tops. Hart & Cooley Mfg. Co., Holland, Mich.
 Met-L-Flex—Vibration Isolating Bases and Pads. Robinson Technical Products, Inc., Teterboro, N. J.
 MetMastr—Sheet Metal Working Machines. Lennox Tool & Machine Builders, Lima, O.
 Metvent—Gas Vent. Hart & Cooley Mfg. Co., Holland, Mich.
 MetroDeck—Steel Roofing. Goldsmith Metal Lath Co., Cincinnati, Ohio.
 Metropac—Oil Burners. Waterair Co., Medford, Mass.
 Metropolitan—Baseboard Diffusers, Registers. Krauser-Boyd, Inc., North Tonawanda, N. Y.
 Mex-Ko—Refractories. A. P. Green Fire Brick Co., Mexico, Mo.
 Meyco—Furnaces. Meyer Furnace Co., Peoria, Ill.
 Miami-Carey—Metal Access Doors, Fans. Philip Carey Mfg. Co., Cincinnati, O.
 Miami—Furnaces. Gross Furnace Mfg. Co., Inc., Salem, Va.
 Mica-kote—Roofing Felt. Philip Carey Mfg. Co., Cincinnati, Ohio.
 Micro-Bar—Duct Insulation. Johns-Manville, New York, N. Y.
 Micro-Dri—Refrigerant. Dehydrators. Wabash Corp., Chicago, Ill.
 Microdyne—Dust Collectors. Joy Mfg. Co., Pittsburgh, Pa.
 Microflex—Vibration Isolating Bases. Johns-Manville, New York, N. Y.
 Micro-Heater—Heaters. Hastings Air Control, Inc., Omaha, Nebr.
 Micro-Klean—Fuel Oil Filters. Cuno Engineering Corp., Meriden, Conn.
 Microlite—Insulation. Johns-Manville, New York, N. Y.
 Microlock—Bearings. Shafer Bearing Div., Chain Belt Co., Downers Grove, Ill.

Micromat—Filters. Microtron Corp., Charlotte, N. C.
 Micromet—Rust Preventive Chemicals, Water Conditioners. Calgon Co., Div. of Hagan Chemicals & Controls, Inc., Pittsburgh, Pa.
 Micro Motor—Motors. Redmond Co., Inc., Subsidiary of Controls Co. of America, Owosso, Mich.
 MicroKold—Stainless Sheets. Washington Steel Corp., Washington, Pa.
 Micro-Screen—Fuel Oil Filters. Cuno Engineering Corp., Meriden, Conn.
 Micro-Scriber—Scriber. Greist Mfg. Co., New Haven, Conn.
 Micro-Spray—Paint Guns. M & E Mfg. Co., Indianapolis, Ind.
 Microtux—Insulation. Johns-Manville, New York, N. Y.
 Microtherm—Thermostats. Barber-Colman Co., Rockford, Ill.
 Micro-Weld—Welders. Micro Products Co., Chicago, Ill.
 Midco—Make-Up Air Units. Mid-Continent Metal Products Co., Chicago, Ill.
 Midget—Humidifier Valves. Maid-O'-Mist, Inc., Chicago, Ill.
 Midg-O-Matic—Solenoid Valve. Hays Mfg. Co., Erie, Pa.
 Mighty Midget—Furnaces. Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Mighty Midget—Drills. Stanley Elec. Tools Div. of The Stanley works, New Britain, Conn.
 Mighty Mite—Stud Guns. Remington Arms Co., Inc., Bridgeport, Conn.
 Milburn—Brazing Torches. Black Mfg. Co. Div., Alexander Milburn, Inc., Baltimore, Md.
 Milcor—Dampers, Roof Decking, Draft Diverters, Access Doors, Duct Accessories, Metal Duct, Roof Flashings, Small Pipe Heating Systems, Gutters and Gutter Accessories, Louvers, Mouldings, Pipe and Fittings, Prefabricated Curtain Wall Panels, Conductor Pipe Hooks, Galvanized Sheets, Roofing, Roof Trim. Inland Steel Products Co., Milwaukee, Wis.
 Milford—Hack Saw Blades. Henry G. Thompson & Sons Co., New Haven, Conn.
 Milwaukee—Presses and Dies. Doelger & Kirsten, Inc., Milwaukee, Wis.
 Milwaukee Thermoflo—Furnaces. Metzger Machine & Engineering Co., Thermoflo Div., Milwaukee, Wis.
 Mindicator—Thermometers. Dickson Co., Chicago, Ill.
 Minicorder—Recorders. Dickson Co., Chicago, Ill.
 Minit Kote—Metal Cleaner. Klem Chemicals, Inc., Detroit, Mich.
 Mipatan—Power Hammers. Port City Machine & Tool Co., Muskegon, Mich.
 Miracle Breeze—Fans, Air Conditioning Units, Evaporative Cooler Mats, Evaporative Cooler Units. Arizona Maintenance Co., Tucson, Ariz.
 Mirodized—Perforated Metal. Colonial Alloys Co., Philadelphia, Pa.
 Mirror—Vent Caps, Draft Diverters, Furnace Pipe and Fittings. Mirror Patented Stove Pipe Co., Hartford, Conn.
 Mission—Water Heater. Gaffers & Sattler, Los Angeles, Calif.
 Mistender—Mist Separator for Blow Pipes. Dustender Co., Ann Arbor, Mich.
 Mixend—Welding Rod. Arcos Corp., Div. of Hughes and Keenan Co., Delaware, O.
 Mizzou—Refractories. A. P. Green Fire Brick Co., Mexico, Mo.
 ModernAire—Evaporative Air Conditioning Units. National Equipment Co., Denison, Texas.
 Modern Slugger—Electric Hammer. Mod-

ern Mfg. Co., Inc., Willow Grove, Pa.
 Modu-aire—Air Conditioning Units. U. S. Air Conditioning Corp., Delaware, O.
 Moduflow—Control Systems. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Modulite—Skylights. Chemold Co., Santa Monica, Calif.
 Modutrol—Duct Damper Motors. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Modu-Wave—Welders. Sciaky Bros., Inc., Chicago, Ill.
 Mogul—Rust Preventive Chemicals, Water Conditioning Compounds, Soot Removers, Tank Solvents. North American Mogul Products Co., Cleveland, O.
 Mogul Kwik-Kleen—Cleaning Compound. North American Mogul Products Co., Cleveland, O.
 Mohawk—Furnaces. Dowagiac Steel Furnace Co., Dowagiac, Mich.
 Moist-Aire—Furnace Humidifiers. Royal Mfg. Co., Royal Oak, Mich.
 Moistop—Vapor Barriers. American Siskraft Corp., Attleboro, Mass.
 Moisture-Lite—Humidity Recorders. Newmack Corp., Elyria, O.
 Moisture Magnet—Dehumidifiers. Remington Air Cond. Div., Remington Corp., Auburn, N. Y.
 Monar—Welding Rod. Arcos Corp., Philadelphia, Pa.
 Moncnet—Blower-Filter Units, Furnaces, Incinerators, Unit Heaters, Air Conditioning Units. Henry Furnace Co., Medina, Ohio.
 Monel—Sheets, Plate and Tubing, Electrodes. International Nickel Co., New York, N. Y.
 Monend—Welding Rod. Arcos Corp., Philadelphia, Pa.
 Monite—Humidifier Plates. Cleveland Humidifier Co., Cleveland, O.
 Monmouth—Humidifiers. Cleveland Humidifier Co., Cleveland, Ohio.
 Mono Block—Furnace Insulation. Baldwin-Ehret-Hill, Inc., Trenton, N. J.
 Monoline—Refractories. Quigley Co., Inc., New York, N. Y.
 Mono Motor—Electric Motors. Redmond Co., Inc., Subsidiary of Controls Co. of America, Owosso, Mich.
 Monoport—Gas Burners. Modern Controls Corp., Centerline, Mich.
 Monovent—Roof Ventilators. Burt Mfg. Co., Akron, Ohio.
 Mor Air—Propeller Fan Blades. Maurey Mfg. Corp., Chicago, Ill.
 Morflex—Flexible Couplings. Morse Chain Co., Ithaca, N. Y.
 Mor-Grip—Fan and Motor Pulleys, V-Belts. Maurey Mfg. Corp., Chicago, Ill.
 Morse Cyclone—Blow Pipe Collectors. Goergen-Mackwirth Co., Inc., Buffalo, N. Y.
 Mor-Sun—Oil Burners, Furnaces, Unitary Air Conditioners, Coils, Diffusers, Ducts and Duct Fittings. Morrison Steel Products, Inc., Buffalo, N. Y.
 Mortex—Metal Protective Coatings. J. W. Mortell Co., Kankakee, Ill.
 Mortite—Caulking and Glazing Compounds. J. W. Mortell Co., Kankakee, Ill.
 Motorized Draft-O-Stat—Controls. Hotstream Heater Co., Cleveland, Ohio.
 Motoroor—Kitchen Exhaust Fans. Broan Mfg. Co., Inc., Hartford, Wis.
 Motorstoker—Stokers. Hershey Motorstoker, Manheim, Pa.
 Mototurb—Ventilators. Uno Ventilator Co., Malden, Mass.
 Muckle-Vents—Roof Ventilators. Muckle Mfg. Co., Owatonna, Minn.
 Multiblade—Welding Fume Exhausters.

General Blower Co., Subsidiary of Ilg Electric Ventilating Co., Morton Grove, Ill.
 Multiclone—Blow Pipe Collectors. Western Precipitation Corp., Los Angeles, Calif.
 Multi-duty—Pulleys. Gates Rubber Co., Denver, Colo.
 Multi-Dury—Filters. American Air Filter Co., Inc., Louisville, Ky.
 Multiguard—Electric Motors. Lincoln Electric Co., Cleveland, O.
 Multi-Max—Punch Presses. Diamond Machine Tool Corp., Pico-Rivera, Calif.
 Multi-Notcher—Notching Machine. Fall-sington Mfg. Co., Fallsington, Pa.
 Multi-Pul—Hoists. Multiple Corp., Dayton, O.
 Multitherm—Air Conditioning Units. Clarage Fan Co., Kalamazoo, Mich.
 Multivane—Blowers. Westinghouse Electric Corp., Sturtevant Div., Hyde Park, Boston, Mass.
 Multi-Vent—Air Diffuser. Pyle-National Co., Multi-Vent Div., Chicago, Ill.
 Multi-Vent Troffer—Diffusers. Pyle-National Co., Multi-Vent Div., Chicago, Ill.
 Murex—Welding Rod. Metal & Thermit Corp., Rahway, N. J.
 Myka-Disk—Baffles. Insulation & Refractories Co., Webster, N. Y.

N

NCG—Soldering and Welding Flux, Refrigerant Leak Detectors, Welding Rods. National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
 N-E Hite—Fuel Oil Pumping Systems. Robert Barclay, Inc., Chicago, Ill.
 Nairoil—Oil Burners. National Airoil Burner Co., Philadelphia, Pa.
 Nalco—Flux. National Lead Co., New York, N. Y.
 NarrowWall—Wall Furnaces. Holly-General Co., Pasadena, Calif.
 Natco—Furnaces. National Thermatic Corp., Houston, Tex.
 National—Furnaces. MaGirl Foundry & Furnace Co., Bloomington, Ill.
 National—Horizontal Furnaces. Stainless & Steel Products Co., St. Paul, Minn.
 National Champion—Furnaces and Furnace Type Dryers. National Heater Co., Inc., St. Paul, Minn.
 Natur-Temp—Building Insulation. Barnhardt Mfg. Co., Charlotte, N. C.
 Narurzone—Building and Duct Insulation. Wilson & Co., Inc., Chicago, Ill.
 Nebelastic—Roof Cement. Nebel Mfg. Co., Cleveland, Ohio.
 Nebel-Kote—Paint. Nebel Mfg. Co., Cleveland, Ohio.
 Necon—Cleaning Compounds for Condensers and Coils. Northeast Consultants, Inc., Framingham, Mass.
 Nelco—Metal Letters. Metalcraft, Inc., Chicago, Ill.
 Nelson—Air Conditioning Units, Baseboard Diffusers, Furnaces, Stokers. Heating Assurance, Inc., Spokane, Wash.
 Nelweld—Welders. Nelson Stud Welding Div., Gregory Industries, Inc., Lorain, Ohio.
 Neobon—Metal Protective Coatings. Atlas Mineral Products Co., Mertz-town, Pa.
 Nepoxide—Metal Protective Coatings. Atlas Mineral Products Co., Mertz-town, Pa.
 Neutroda—Fuel Oil Deodorizers. Tankit Co., Inc., Newark, N. J.

Never-Clog—Furnace Vacuum Cleaners. Pullman Vacuum Cleaner Corp., Boston, Mass.

Never-Stain—Aluminum Nails, Roof Flashings, Aluminum Wire, Ridge Roll, Roofing. Nichols Wire & Aluminum Co., Davenport, Iowa.

New Departure—Oil Burners. Breeze Corps., Inc., Newark, N. J.

Newport—Air Conditioning Units. Warren Webster & Co., Camden, N. J.

Niagara—Water Heaters. Sands Mfg. Co., Cleveland, O.

Nib-Shear—Power Nibber-Shear. H.A. Mfg. Co., York, Pa.

Nickelend—Welding Rod. Arcos Corp., Philadelphia, Pa.

Nickeloid—Sheets. American Nickeloid Co., Peru, Ill.

Nickend—Welding Rod. Arcos Corp., Philadelphia, Pa.

Nicuar—Welding Rod. Arcos Corp., Philadelphia, Pa.

Nicuend—Welding Rod. Arcos Corp., Philadelphia, Pa.

Nifer—Metal Sheets. Texas Instruments Inc., Metals & Controls Div., Attleboro, Mass.

Nite Air—Night Air Cooling Fans. Lau Blower Co., Dayton, Ohio.

Nitetic—Welding Rod. Eutectic Welding Alloys Corp., Flushing, N. Y.

Noah's Pitch—Waterproofing. Philip Carey Mfg. Co., Cincinnati, Ohio.

No-Bounce—Mallets. Tahlen Hammer Co., Seattle, Wash.

NoDrip—Rust Preventive Chemicals, Metal Protective Coatings, Insulation. J. W. Mortell Co., Kankakee, Ill.

No-Dust—Grinders. Hammond Machinery Builders, Inc., Kalamazoo, Mich.

Nokorode—Flux. M. W. Dunton Co., Providence, R. I.

Non-Clogging—Spray Nozzles. Link Belt Co., Chicago, Ill.

Non-Con-Dux—Cement, Paper, Paste. Grant Wilson, Inc., Chicago, Ill.

No-Ox-Id—Rust Preventive Chemicals. Dearborn Chemical Co., Chicago, Ill.

Norblo—Blowers. Northern Blower Co., Cleveland, Ohio.

Norco—Furnaces, High Pressure Oil Burners. North Coast Mfg. Corp., Portland, Ore.

Norcool—Unitary Air Conditioners. North Coast Mfg. Corp., Portland, Ore.

Northern Air—Air Conditioning Units. Great Northern Mfg. Corp., Chicago, Ill.

Norwalker—Duct and Duct Fittings, Furnaces. Norwalk Air Conditioning Corp., South Norwalk, Conn.

Norwesco—Flashings, Gutters, Conductor, Furnace Pipe and Fittings, Ridge Roll, Roof Trim. Northwest Metal Products, Inc., Seattle, Wash.

Norwester—Blowers. Grand Rapids Die & Tool Co., Grand Rapids, Mich.

No-Spat—Welding Flux. The Harrison Paint & Varnish Co., Midland Industrial Div., Canton, O.

No-Sureak—Registers. Rock Island Register Co., Rock Island, Ill.

No Tar In—Roofing Paint. Rutland Fire Clay Co., Rutland, Vt.

Novoid—Bases, Insulation. National Cork Co., Englewood, N. J.

Nox Soot—Soot Remover. Schaefer Chemical Products Co., Saginaw, Mich.

Nu-Air—Fan Blades, Fans, Louvers, Ventilators. Meier Electric, Indianapolis, Ind.

Nu-Air—Odor Adsorbers. Charles E. Manning Co., Pittsburgh, Pa.

Nu-Alpins—Gravity Roof Ventilators. Inland Steel Products Co., Milwaukee.

Nu Arc—Arc Welders. Electric Arc, Inc., Newark, N. J.

Nu Braze—Flux. American Silver Co., Inc., Flushing, N.Y.

Nudeck—Roof Cement. United Gilsonite Laboratories, Scranton, Pa.

Nu Galv—Metal Protecting Paint. Southern States Iron Roofing Co., Savannah, Ga.

Nu-Notch—Diffusers. Knowles Mushroom Ventilator Co., Upper Montclair, N. J.

Nupla—Mallets. New Plastic Corp., Hollywood, Calif.

Nu-Rail—Pipe Fittings. Hollaender Mfg. Co., Cincinnati, O.

Nu-Trojan—Combustion Chambers. A. R. Webber Co., Inc., New Haven, Conn.

NuVac—Furnace Vacuum Cleaners. Empire Chemical Products Co., Newark, N. J.

Nuweld—Skylight Wire Glass. American-St. Gobain Corp., New York, N. Y.

Nu-Wood—Rigid Insulation. Wood Conversion Co., St. Paul, Minn.

Nylaflo—Plastic Tubing. Polymer Corp., Reading, Pa.

Nylasint—Plastics, Powders and Resins. Polymer Corp., Reading, Pa.

Nylatron—Plastics, Powders and Resins. Polymer Corp., Reading, Pa.

Nylo-Seal—Plastic Tubing, Fittings and Valves. Imperial Brass Mfg. Co., Chicago, Ill.

Ny-Sul-Loft—Air Filters. Star Woolen Co., Cohoes, N. Y.

O

OEM—Combustion Chambers, Baffles. Oil Equipment Mfg. Corp., New Haven, Conn.

OG56—Gas Burner. Banner Burner Co., Youngstown, O.

OK—Grinders. Hammond Machinery Builders, Inc., Kalamazoo, Mich.

OTC—Hand Tools. Owatonna Tool Co., Owatonna, Minn.

O.X.—Punches. Duro-Dyne Corp., Farmingdale, N. Y.

Oasis—Dehumidifiers. Ebco Mfg. Co., Columbus, Ohio.

Octopus—Exhausters. Chelsea Fan & Blower Co., Inc., Plainfield, N. J.

Ohioan—Water Heaters. Hotstream Heater Co., Cleveland, O.

Ohiolite—Hoists. Ohio Hoist Mfg. Co., Lisbon, O.

Oil-Aire-Flo—Oil Furnaces. Lennox Industries Inc., Marshalltown, Iowa.

Oilifter—Oil Burner Fuel Pumps. A-P Controls Div., Controls Co. of America, Milwaukee, Wis.

Oil King—Furnaces. Floral City Heater Div., United States Air Conditioning Corp., Monroe, Mich.

Oil-n-Aire—Oil Burners. Breeze Corps., Inc., Newark, N. J.

Oil-O-Matic—Oil Burners, Furnaces. Williams Oil-O-Matic Heating Co., Div. of National Union Electric Corp., Columbus, O.

Oilsaver—Furnaces. The Williamson Co., Cincinnati, O.

Oil-Treet—Fuel Oil Solvents. Schaefer Chemical Products Co., Saginaw, Mich.

Ol'Faithful—Humidifiers. Maid-O'-Mist, Inc., Chicago, Ill.

Oneida Royal—Furnaces. Oneida Heater Co., Inc., Oneida, N. Y.

One-Minute—Furnaces. Worsham Co., Inc., St. Louis, Mo.

Opax—Damper Hardware, Damper Linkage Sets. Duro-Dyne Corp., Farmingdale, N. Y.

Oppo-Matic—Damper Hardware. Elgen Mfg. Corp., Long Island City, N. Y.

Oran—Furnaces. J. Leukart Machine Co., Columbus, O.

Oriclone—Air Scrubbers for Fume Removal. The Ducon Co., Inc., Mineola, N. Y.

Or-O-Co—Circle-Cutting Torch Attachment. Ideas, Inc., Laramie, Wyo.

Out-O-Wall—Registers. Rock Island Register Co., Rock Island, Ill.

Ox-Off—Aluminum Cleaning Compound. Chemclean Products Corp., College Point, N. Y.

Oxweld—Flux, Welding Apparatus. Linde Co., Div. Union Carbide Corp., New York, N. Y.

Ozark—Refractories. A. P. Green Fire Brick Co., Mexico, Mo.

Ozite—Insulation. American Hair & Felt Co., Chicago, Ill.

P

PBA Unit—Utility Room Furnace. Dowagiac Steel Furnace Co., Dowagiac, Mich.

P & H—Hoists, Arc Welders. Harnischfeger Corp., Milwaukee, Wis.

P.I.V.—Variable Speed Transmissions. Link-Belt Co., Chicago, Ill.

P-K—Nails. Parker-Kalon Div. of General American Transportation Corp., Clifton, N. J.

PL-210—Flux. Paul-Lewis Laboratories, Inc., Milwaukee, Wis.

PP—Gutter Accessories. Profit Products Co., Chicago, Ill.

PRC—Bonding Adhesives and Waterproofing. Products Research Co., Burbank, Calif.

Pabco—Waterproofing. Fibreboard Paper Products Corp., San Francisco, Calif.

Pabco Coolite—Sheet Metal Paint. Pabco Products Inc., San Francisco, Calif.

Pacemaker—Furnaces. The Payne Co., La Puente, Calif.

Pacer—Furnaces. Sequoia Mfg. Co., San Carlos, Calif.

Pacific—Furnaces. W. W. Rosebraugh Co., Salem, Ore.

Pacific—Water Heaters. United States Radiator Corp., Detroit, Mich.

Packaged Weather—Store Coolers. General Electric Co., Bloomfield, N. J.

Paint-bond—Bonderized Sheets. United States Steel Corp., Pittsburgh, Pa.

Paintgrip—Metal Sheets. Armco Steel Corp., Middletown, Ohio.

Pak-Ice—Machines. Vilter Mfg. Co., Milwaukee, Wis.

Palco Wool—Saferized—Insulation. Pacific Lumber Co., San Francisco, Calif.

Palm Beach—Controls. National Modulation Co., St. Paul, Minn.

Palmetto—Asbestos Rope, Packing, Gaskets. Greene, Tweed & Co., North Wales, Pa.

Panelaire—Wall Furnaces. The Payne Co., La Puente, Calif.

Panel-Master—Electric Saws and Attachments. Kett Tool Co., Cincinnati, O.

Panelouvre—Louvers. Ventilouver Co., Inc., Chicago, Ill.

Panelray—Furnaces. Day & Night Mfg. Co., La Puente, Calif.

Papico—Water Heaters. Continental Water Heater Co., Los Angeles, Calif.

Para Flo—Diffusers. Barber-Colman Co., Rockford, Ill.

Paramount—Evaporative Air Conditioners. Essick Mfg. Co., Los Angeles, Calif.

Paramount—Flashing. Flemm Lead Co., Inc., Long Island City, N. Y.

Paramount-Master—Evaporative Coolers. Essick Mfg. Co., Los Angeles, Calif.

Parco—Skylight Lifts. Park City Cornice Works, Inc., Bridgeport, Conn.

- Parkway—Furnaces. Heil-Quaker Corp., Nashville, Tenn.
- Parx LPG—Water Heaters. EverHot Heater Div. of Temprite Products Corp., Detroit, Mich.
- Patnel—Plastic Panels. Kemlite Corp., Joliet, Ill.
- Peerless—Stokers. Eddy Stoker Corp., Wheeling, Ill.
- Pee Vee Cee—Plastic Tubing, Plastic Sheets. Atlas Mineral Products Co., Mertztown, Pa.
- Pemco—Stainless Firebox Fittings, Baffles. Oil Equipment Mfg. Co., New Haven, Conn.
- Penetrant—Cleaning Compounds for Air Filters. Oakite Products Inc., New York, N. Y.
- Penetrate 77—Rust Preventive Chemicals. S.O.S. Products Co., Inc., Brooklyn, N. Y.
- Penetrol—Paint. Flood Co., Hudson, Ohio.
- Penflex—Flexible Metal Hose and Fittings. Pennsylvania Flexible Metallic Tubing Co., Paoli, Pa.
- Penglass—Roof Ventilators. Pennsylvania Wire Glass Co., Philadelphia, Pa.
- Pengun—Oil Burners. Penn Boiler Div., Peabco Industries Inc., Lancaster, Pa.
- Penmetal—Metal Partitions. Penn Metal Co., Inc., Boston, Mass.
- Penn-Aire—Furnaces. Union Mfg. Co., Inc., Boyertown, Pa.
- Penna—Furnaces. Pennsylvania Furnace & Iron Co., Warren, Pa.
- Penn Drake—Rust Preventive Chemicals, Fuel Oil Solvents. Pennsylvania Refining Co., Ohio Div., Cleveland, O.
- Pennhouse—Roof Ventilators. Penn Ventilator Co., Inc., Philadelphia, Pa.
- Penn Power—Fans. Penn Ventilator Co., Inc., Philadelphia, Pa.
- Pentatemp—Air Conditioning Units. Dialatemp, Inc., St. Louis, Mo.
- Perco-Flash—Water Heaters. Kresno-Stamm Mfg. Co., Palisades Park, N. J.
- Percoproof—Waterproofing. Philip Carey Mfg. Co., Lockland, Cincinnati, Ohio.
- Perfectaire—Air Conditioning Units. Dehumidifiers, Furnaces, Louvers, Shutters, Oil Heaters, Heat Recoverers. Air Conditioning Engineering Co., Cambridge, Mass.
- PerfectTemp—Furnaces. Peerless Corp., Indianapolis, Ind.
- Perfecto—Combustion Chambers. A. P. Green Fire Brick Co., Mexico, Mo.
- Perfect Spread—Stokers. American Engineering Co., Div. of United Industrial Corp., Philadelphia, Pa.
- Perfusaire—Differs. Registers. Auer Register Co., Cleveland, O.
- Perma-flo—Metal Duct and Fittings. Furnace Pipe and Fittings. Lennox Industries Inc., Marshalltown, Ia.
- Perimsul—Edge Insulation. Baldwin-Ehret-Hill, Inc., Trenton, N. J.
- Permadine—Coating Chemical for Steel or Iron Surfaces. Amchem Products, Inc., Ambler, Pa.
- Permadrain—Gutters and Gutter Accessories, Conductor Pipe and Fittings. Permanent Products, Inc., St. Paul, Minn.
- Permadrain—Gutters and Gutter Accessories (glass fiber). Owens-Corning Fiberglas Corp., New York, N. Y.
- Perma-Fan—Refrigerating Condensers. Draver-Hanson, Div. of National-U.S. Radiator Corp., Los Angeles, Calif.
- Permaglas—Furnaces and Water Heaters. A. O. Smith Corp., Permaglas Div., Kankakee, Ill.
- Perma-Ply—Roofing Felt. Owens-Corning Fiberglas Corp., New York, N. Y.
- Permatower—Cooling Towers. The Marley Co., Kansas City, Mo.
- Pernoco—Evaporative Coolers. Pernot Corp., Norwalk, Calif.
- Pet—Electric Buffers, Grinders, Polishers and Sanders, Electric Drills. Portable Electric Tools, Inc., Geneva, Ill.
- Pet-Re-Kleen—Soot Remover. Norman Chemical Co., St. Paul, Minn.
- Pet-Re-Nol—Fuel Oil Tank Solvents. Norman Chemical Co., St. Paul, Minn.
- Petromiser—Fuel Oil Tank Solvent. Stewart-Hall Chemical Corp., Mt. Vernon, N. Y.
- Pexto—Metal Workers Machines and Tools, Roofers Tools. Peck, Stow & Wilcox Co., Southington, Conn.
- Phoenix—Registers. Air-Factors, Inc., Monrovia, Calif.
- Phoson—Silver Solder. United Wire & Supply Corp., Providence, R. I.
- Phosteen—Rust Preventive Chemicals. Neilson Chemical Co., Detroit, Mich.
- Piart—Controls. Montgomery Products Co., Lansing, Mich.
- Pilotstat—Gas Pilot Controls. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
- Pioneer—Controls. Crown Controls Co., Inc., New Bremen, Ohio.
- Pioneer—Power Nibbling Machine. The Claremont Co., Inc., Meriden, Conn.
- Pittcaulk—Caulking Compounds. Pittsburgh Plate Glass Co., Pittsburgh, Pa.
- Plas-Dux—Caulking Compound. Habbitt Chemical Co., Inc., New Bedford, Mass.
- Plasti-Calk—Caulking Compounds. Chamberlin Co. of America, New York, N. Y.
- Plastic Insulcrete—Refractories. Quigley Co., Inc., New York, N. Y.
- PlastiKon—Rubber Putty. B. F. Goodrich Industrial Products Co., Akron, Ohio.
- Plastiktrim—Plastic Mouldings, Trim. R. D. Werner Co., New York, N. Y.
- Plastilock—Bonding Adhesives. B. F. Goodrich Industrial Products Co., Akron, O.
- Plastite—Roof Cement. Coopers Creek Chemical Corp., West Conshohocken, Pa.
- Plastoid—Caulking Compounds, Furnace Cement. Plastic Products Co., Detroit, Mich.
- Plasturbo—Blower Wheels. Mamco Corp., Racine, Wis.
- Plica—Metal Hose and Fittings. Flexaust Co., New York, N. Y.
- Pli-Grip—Rivets. Insul-Coustic Corp., Maspeth, N. Y.
- Pliotron—Filters. Goodyear Tire & Rubber Co., Akron, O.
- Polar-Pak—Air Conditioning Units. Coleman Co., Inc., Wichita, Kans.
- Polar Prince—Air Conditioning Units, Condensing Units. Coleman Co., Inc., Wichita, Kans.
- Polar-Solar—Air Conditioning Units. Coleman Co., Inc., Wichita, Kans.
- Pollen Ex—Air Filters. Associated Mills, Inc., Chicago, Ill.
- Poly-Champ—Vapor Barriers. Ludlow Papers, A Division of Ludlow Corp., Needham Heights, Mass.
- Polyclad—Waterproofing. Carboline Co., St. Louis, Mo.
- Polyfilm—Vapor Barriers. Dow Chemical Co., Midland, Mich.
- Poly-Flo—Plastic Tubing, Fittings and Valves. Imperial Brass Mfg. Co., Chicago, Ill.
- Polyken—Duct Tape. The Kendall Co., Chicago, Ill.
- Porcel Panels—Curtain Wall Panels. Ingram-Richardson Mfg. Co., Beaver Falls, Pa.
- Poro-Klean—Fuel Oil Filters. Cuno Engineering Corp., Meriden, Conn.
- Portovent—Flexible Duct. Flexaust Co., New York, N. Y.
- Powair-X-Hauser—Roof Ventilators. G. C. Breidert Co., San Fernando, Calif.
- Powerbilt—Exhausters. Power Engineering Co., Chicago, Ill.
- Power-Flo—Blowers, Exhausters. Brookside Products Co., Inc., McCordsville, Ind.
- Power-Flow—Ventilators. De Bothezat Fans Div., American Machine and Metals, Inc., East Moline, Ill.
- Powerloid—Magnetic Switches. Guardian Electric Mfg. Co., Chicago, Ill.
- Powermaster—Fans. Acme Engineering & Mfg. Corp., Muskogee, Okla.
- Power Mate—Stud Guns. Remington Arms Co., Inc., Bridgeport, Conn.
- Power-Poise—Electric Motors. Brown-Brockmeyer Co., Inc., Dayton, O.
- PowerRated—Commercial-Industrial Furnaces. Jackson & Church Co., Saginaw, Mich.
- Powerstat—Gas Pressure Regulating Valves. Mercoird Corp., Chicago, Ill.
- Power Vane—Drills. Chicago Pneumatic Tool Co., New York, N. Y.
- Powrmatic—Furnaces. Water Heaters, Oil Burners. Kresno-Stamm Mfg. Co., Palisades Park, N. J.
- Precipitron—Electrical Air Cleaners. Westinghouse Elec. Corp., Sturtevant Div., Hyde Park, Boston, Mass.
- Pre-fab-ric—Flexible Duct Connections. Cain Mfg. Inc., Birmingham, Ala.
- Premier—Welding Rod. American Steel & Wire Div., U. S. Steel Corp., Cleveland, Ohio.
- Premier Automatik—Stoker-Fired Air Conditioning Furnaces. Premier Furnace Co., Dowagiac, Mich.
- Premier DeLuxe—Furnaces. Premier Furnace Co., Dowagiac, Mich.
- Premier Master—Furnaces. Premier Furnace Co., Dowagiac, Mich.
- Pre-Pak—Furnaces. Republic Products Co., Philadelphia, Pa.
- Prepnote—Rust Preventive Chemical. Neilson Chemical Co., Detroit, Mich.
- Preprite—Rust Preventive Chemicals. Neilson Chemical Co., Detroit, Mich.
- Prepwash—Rust Preventive Chemicals. Neilson Chemical Co., Detroit, Mich.
- Pressico—Roof Cement, Caulking Compounds, Paint. Presstite Div., American-Marietta Co., St. Louis, Mo.
- Pres-Stix—Adhesive Tape for Sealing Duct Joints. American Tape Co., Detroit, Mich.
- Presst-O-Cel—Tubing Insulation. Presstite Div., American-Marietta Co., St. Louis, Mo.
- Presst-O-Lite—Refrigerant Leak Detectors, Soldering Torches, Welding Equipment. Linde Co., Div. Union Carbide Corp., New York, N. Y.
- Primco—Hygrometers, Psychrometers, Electric Relays, Thermometers and Thermostats. Precision Thermometer and Instrument Co., Philadelphia, Pa.
- Propellair—Fans and Ventilators. Propellair Div., Robbins & Myers, Inc., Springfield, Ohio.
- Prop-R-Temp—Heat Pump. Typhoon Heat Pump Div., Hupp Corp., Tampa, Fla.
- Protectal—Sheet Metal Paint. Coopers Creek Chemical Corp., West Conshohocken, Pa.
- Protecto-glo—Controls. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.

Protectoline—Rust Preventive Chemicals. Magnus Chemical Co., Garwood, N. J.
 Protectomotor—Filters. Dollinger Corp., Rochester, N. Y.
 Protector—Snow Guards. David Levow, Inc., South Hackensack, N. J.
 Protectorelay—Oil Burner Relays. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Protektoflex—Duct and Tubing Insulation. Miracle Adhesives Corp., Bellmore, L. I., N. Y.
 Psychron—Psychrometers. Friez Instrument Div., Bendix Aviation Corp., Baltimore, Md.
 Pul-Air—Ventilators. Penn Ventilator Co. Inc., Philadelphia, Pa.
 Pullman—Ventilators. Penn Ventilator Co. Inc., Philadelphia, Pa.
 Pullmax—Sheet Metal Working Machines. American Pullmax Co., Inc., Chicago, Ill.
 Pulsatherm—Controls. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Pump-Aid—Winter Protective Pump Compound. The Garman Co., St. Louis, Mo.
 Punch-aire—Air Conditioning Units. Cool-Ette, Inc., Detroit, Mich.
 Punchawl—Tools. Hub Specialty Co., Reading, Mass.
 Punch Pal—Punches. Wilder Mfg. Co., Inc., Salinas, Calif.
 Punkah—Louvers and Shutters. Thermotank, Inc., Air Products Div., Detroit, Mich.
 Pur Air—Odor Absorbers. Filters. Barney-Cheney Co., Columbus, O.
 Pure-Air—Filters. Arco Mfg. Corp., New York, N. Y.
 Puritron—Air Sterilizers. Ozo Sales Corp., New Haven, Conn.
 Purox—Oxy-Acetylene Welding Equipment and Torches. Linde Co., Div. Union Carbide Corp., New York, N. Y.
 Push Button—Controls. White-Rodgers Co., St. Louis, Mo.
 Pyralux—Enamels and Lacquers. E. I. du Pont de Nemours & Co., Wilmington, Del.
 Pyranol—Electric Capacitors. General Electric Co., Capacitor Dept., Hudson Falls, N. Y.
 Pyratherm—Controls. Mercoid Corp., Chicago, Ill.
 Pyrojector—Ventilators. Swartwout Fabricators, Inc., Kokomo, Ind.
 Pyroport—Roof Ventilators. Penn Ventilator Co., Inc., Philadelphia, Pa.
 Pyrosteel—Refractories. A. P. Green Fire Brick Co., Mexico, Mo.
 Pyrotron—Temperature Recorders. Bailey Meter Co., Cleveland, Ohio.

Q

Q-Chrome—Insulating Cement. Quigley Co., Inc., New York, N. Y.
 Q-Chromatic—Insulating Cement. Quigley Co., Inc., New York, N. Y.
 Q-T Ductliner—Building and Duct Insulation. Celotex Corp., Chicago, Ill.
 Quaker City—Gutters and Gutter Accessories. Snow Guards, Conductor Pipe and Fittings, Ridge Roll. Berger Bros. Co., Philadelphia, Pa.
 Quantrol—Duct Turning Vanes. Register & Grille Mfg. Co., Inc., Brooklyn, N. Y.
 Quick Action—Clamps. C W R Mfg. Co., Morro Bay, Calif.
 Quick-As-Wink—Solenoid Valves, Metal Hose, Hunt Valve Co., Salem, Ohio.

Quick Drive—Masonry Stud Driver. Omark Industries, Inc., Portland, Ore.
 Quick Heat—Furnaces. American Stove Co., St. Louis, Mo.
 Quick Heat—Furnaces. Tjernlund Mfg. Co., St. Paul, Minn.
 Quick Heater—Oil Burners, Furnaces, Stokers. Quick Furnace & Supply Co., Des Moines, Iowa.
 Quick-Set—Roof Cement. Bird & Son, Inc., East Walpole, Mass.
 Quick-Set—Dividers and Notchers. Reinert & Campbell Co., Inc., Elizabeth, N. J.
 Quiet-Duct—Sound Absorbers for Ducts. Industrial Acoustics Co., Inc., New York, N. Y.
 Quiet Flame—Oil Burners. Volcano Burner Mfg. Inc., New York, N. Y.
 Quiet Kool—Air Conditioning Units. Emerson Radio & Phonograph Corp., Jersey City, N. J.
 Quiet May—Furnaces. Penn Boiler Div., Peabco Industries Inc., Lancaster, Pa.
 Quiet-Vent—Sound Absorbers for Ducts. Industrial Acoustics Co., Inc., New York, N. Y.
 Quiet Zone—Blowers. Palmer Mfg. Co., Phoenix, Ariz.
 Quik-Joint—Pipe Fittings. Guardian Products Corp., Michigan City, Ind.
 Quik-Kote—Cement. Grant Wilson, Inc., Chicago, Ill.
 Quilt—Insulation. Samuel Cabot, Inc., Boston, Mass.

R

RB-Integral—Vibration Isolating Pads. Vibration Mountings and Controls Inc., Corona, N. Y.
 R & G—Grilles. Register & Grille Mfg. Co., Inc., Brooklyn, N. Y.
 R & I—Furnace Cement and Insulation, Baffles, Combustion Chambers. Refractory & Insulation Corp., New York, N. Y.
 R & I Moldit Castables—Refractories. Refractory & Insulation Corp., New York, N. Y.
 R & M—Motors, Hoists, Air Conditioning Units. Robbins & Meyers, Inc., Springfield, Ohio.
 RP—Dust & Grease Filters. Research Products Corp., Madison, Wis.
 RP Pressure Koter—Odor Adsorbers for Duct Systems. Research Products Corp., Madison, Wis.
 RP Super Handi-Koter—Odor Adsorbers. Research Products Corp., Madison, Wis.
 R - R - M—Hygrometers, Psychrometers, Thermometers. Palmer Thermometers, Inc., Cincinnati, Ohio.
 Racine—Stokers. Nelson Bros. & Strom Co., Racine, Wis.
 Radiant-Aire—Furnaces. Monogram Industries, Inc., Quincy, Ill.
 Radiaire—Baseboard Diffusers. York-Shipley, Inc., York, Pa.
 Radiaire Base-Heat—Baseboard Diffusers. York-Shipley, Inc., York, Pa.
 Radius Master—Templates. Rapidesign, Inc., Glendale, Calif.
 Radolite—Insulating Cement and Refractories. Pyrolite Products Co., Cleveland, Ohio.
 Ra-Grid—Electric Heating Panels. American-St. Gobain Corp., New York, N. Y.
 Ra-Heat—Electric Heating Cable and Electric Wall Heaters. Tennessee Plastics, Inc., Johnson City, Tenn.
 Rainaire—Ducts and Duct Fittings. Schecter Bros. Co., Philadelphia, Pa.
 Raincote—Waterproofing Materials. Lester Laboratories, Inc., Atlanta, Ga.
 Ramco—Chimney Caps and Tops, Ventilators. Royal-Apex Mfg. Co., Inc., Brooklyn, N. Y.
 Ramex—Pneumatic Hammers. E. V. Nielsen, Inc., Stamford, Conn.
 Ramfeed—Stokers. Canton Stoker Corp., Canton, Ohio.
 Ranarex—CO₂ Analyzers. Permutit Co., Div. of Pfaunder Permutit Inc., New York, N. Y.
 Rangaire—Cooling Coils, Condensers, Furnaces, Air Conditioning Units, Condensing Units. Cobell Industries, Inc., Cleburne, Tex.
 Range-Ventor—Fans, Vent Hoods. Universal Blower Co., Birmingham, Mich.
 Rapays—Metal Cleaner. Randolph-Page, Inc., New York, N. Y.
 Rapid—Powder Activated Studs. August Schoenburger, Inc., West Englewood, N. J.
 Rawl Calk-Ins—Expansion Bolts. Rawlplug Co., Inc., New Rochelle, N. Y.
 Rawl-Drive—Expansion Bolts. Rawlplug Co., Inc., New Rochelle, N. Y.
 Rawl Hammer-Set—Bolts. Rawlplug Co., Inc., New Rochelle, N. Y.
 Rawl-Tapers—Expansion Bolts. Rawlplug Co., Inc., New Rochelle, N. Y.
 Raymaster—Refrigerant Leak Detectors. George W. Gates & Co., Inc., Franklin Sq., L. I., N. Y.
 Ray-Vec—Electric Wall Heaters. Electrend Products Corp., Subsidiary of St. Joe Machines, Inc., St. Joseph, Mich.
 Raywall—Electric Baseboard Heaters. Tennessee Plastics, Inc., Johnson City, Tenn.
 Reciprosaw—Electric Saw. Skil Corp., Chicago, Ill.
 Reco—Fans, Motors, Buffers, Relays and Switches. Reynolds Electric Co., River Grove, Ill.
 Red Cap—Spinner Ventilator. Warner Ventilator Co., LaGrange, Ind.
 Red Crown—Domestic Water Heaters. Hynes & Cox Electric Corp., Burnt Hills, N. Y.
 Red Devil—Furnace Cement. Pecora, Inc., Philadelphia, Pa.
 Reddy-On—Furnace Door Closer. Leisur-Maid Mfg. Corp., Grand Rapids, Mich.
 Red End—Hack Saw Blades. Simonds Saw & Steel Co., Fitchburg, Mass.
 Red Head—Expansion Anchors. Phillips Drill Co., Michigan City, Ind.
 Redi-Kleen—Air Filters. Microtron Corp., Charlotte, N. C.
 Redi-Set—Sheet Metal Workers' Tools. Whitney Metal Tool Co., Rockford, Ill.
 Red Metal—Roof Paint. Rutland Fire Clay Co., Rutland, Vt.
 Red-Reading-Mercury—Hygrometers, Psychrometers and Thermometers. Palmer Thermometers, Inc., Cincinnati, Ohio.
 Red Seal—Sheets. Benjamin Wolf and Co., Chicago, Ill.
 Red Streak—Shear Blades. Simonds Saw & Steel Co., Fitchburg, Mass.
 Red Tang—Metal Files. Simonds Saw & Steel Co., Fitchburg, Mass.
 Red Top—Insulation. United States Gypsum Co., Chicago, Ill.
 Red Top—Thermostats. H-B Instrument Co., Philadelphia, Pa.
 Red-X—Refractories. A. P. Green Fire Brick Co., Mexico, Mo.
 Regal—Roofing Cement. Johns-Manville, New York, N. Y.
 ReGalv—Cold Galvanizing Compounds. RotoMetals, San Francisco, Calif.
 Regent—Electric Wall Heaters. Electrend Products Corp., Subsidiary of St. Joe Machines, Inc., St. Joseph, Mich.
 Registrite—Plastic Panels and Sheets. Campco Div., Chicago Molded Products Corp., Chicago, Ill.

Rego—Brazing Torches. National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.

Regulaire—Furnaces. Perfection Div., Hupp Corp., Cleveland, O.

Reillaloy—Furnace Repair Parts. Pittsburgh Furnace Parts Co., Pittsburgh, Pa.

Reito—Humidifier Valves. Reitman Mfg. Co., Oakland, Calif.

Reliance—Electric Polishers. Chas. F. L'Hommiedieu & Sons Co., Chicago, Ill.

Reloid—Electrical Relays. Guardian Electric Mfg. Co., Chicago, Ill.

Remotaire—Air Conditioning Unit. American Radiator & Standard Sanitary Corp., Plumbing and Heating Div., New York, N. Y.

Renu-glas—Air Filters. American Air Filter Co., Inc., Louisville, Ky.

Repro—Furnaces. Republic Products Co., Philadelphia, Pa.

Republic—Furnaces, Conversion Gas Burners, Incinerators, and Unit Heaters. Auto-Gas Co., Bellwood, Ill.

Republic-Taylor—Terne Roofing Plates. Republic Steel Corp., Cleveland, Ohio.

Return Aire—Furnace Humidifiers. Herrmidier Co., Inc., Lancaster, Pa.

Rev-flo—Furnaces. Sequoia Mfg. Co., San Carlos, Calif.

Revolving—Ventilator. Accurate Sheet Metal & Mfg. Works, Chicago, Ill.

Revolving—Roof Ventilators. Burt Mfg. Co., Akron, Ohio.

Revolving Ventilators—Vent Caps. Accurate Sheet Metal & Mfg. Works, Chicago, Ill.

Rex—Bearings, Fans, Fan Blades, Blower-Filter Units, Blowers, Blower Wheels. Air Controls Inc., Div. Cleveland Heater Co., Cleveland, Ohio.

Rex—Bearings and Nozzles. Chain Belt Co., Milwaukee, Wis.

Rex—Water Heaters. Cleveland Heater Co., Cleveland, Ohio.

Rex—Arc Welders. Peer, Inc., Benton Harbor, Mich.

Rexair—Gas Burners, Furnaces. Reif-Rexoil, Inc., Buffalo, N. Y.

Rex-Airate—Fans, Blower. Air Controls, Inc., Div. Cleveland Heater Co., Cleveland, Ohio.

Rex-Air-Pak—Blower Units. Air Controls, Inc., Div. Cleveland Heater Co., Cleveland, Ohio.

Rexco—Refractories. RexRoto Corp., Walled Lake, Mich.

Rex-Flex—Flexible Duct, Flexible Metal Hose and Fittings. Flexonics Corp., Maywood, Ill.

Rexglas—Water Heaters. Cleveland Heater Co., Cleveland, O.

Rexheat—Water Heaters. Reif-Rexoil, Inc., Buffalo, N. Y.

Rexide—Metal Protecting Paint. A. C. Horn Co., Inc., North Bergen, N. J.

Rexoil—Oil Burners. Reif-Rexoil, Inc., Buffalo, N. Y.

Rex-Tube—Flexible Duct. Flexonics Corp., Maywood, Ill.

Rex-Weld—Flexible Duct. Flexonics Corp., Maywood, Ill.

Rex-Weld Unimetal—Flexible Hose. Flexonics Corp., Maywood, Ill.

Rheotrol—Horizontal Oil Burners. Breese Burners, Inc., Chicago, Ill.

Rhinamel—Enamels. Tropical Paint Co., Cleveland, Ohio.

Rhino—Compounds. Pecora, Inc., Philadelphia, Pa.

Ribbon Air—Baseboard Air Diffusers. Woodside Engineering Co., Franklin Park, Ill.

Rice—Furnace Brushes. Worcester Brush

& Scraper Co., Div. Mason Worcester Brush Co., Worcester, Mass.

Richducts—Non-Metallic Duct. The Richkraft Co., Chicago, Ill.

Richflex—Building Insulation. The Richkraft Co., Chicago, Ill.

Richfoil—Building Insulation. Richkraft Co., Chicago, Ill.

Rid All—Incinerators. Schwab Furnace Co., Milwaukee, Wis.

Ridge—Ventilators. Penn Ventilator Co. Inc., Philadelphia, Pa.

Ridgevent—Roof Ventilators. Octagon Ventilator Mfg. Co., Jackson, Tenn.

Ridgolator—Ridge Roof Ventilator. Klauer Mfg. Co. Dubuque, Iowa.

Riflex—Flexible Hose and Fittings. United Metal Hose Co., Inc., Long Island City, N. Y.

Rigidon—Plastic Sheets. Heil Process Equipment Corp., Cleveland, O.

Rigid-PVC—Plastic Tubing. Easton Plastics Products Co., Inc., Easton, Pa.

Rima-Universal—Portable Electric Shears, Gutter Forming Machines. Malden Research and Development Co., Inc., Malden, Boston, Mass.

Rimguard—Screws. Parker-Kalon Div. of General American Transportation Corp., Clifton, N. J.

Rimset—Thermostat. Penn Controls, Inc., Goshen, Ind.

Rip-o-Lin—Enamels. Glidden Co., Cleveland, Ohio.

Ripple Fin—Coils. McQuay, Inc., Minneapolis, Minn.

Rite-Flo—Air Diffusers, Grilles, Registers. Lenly Mfg. Co., Inc., Los Angeles, Calif.

River Breeze—Exhausters and Fans. Kloppenborg Foundry & Fan Co., Davenport, Ia.

Riviera—Air Conditioning Units. Warren Webster & Co., Camden, N. J.

R-Mir-Dek—Paint. Miracle Adhesives Corp., Bellmore, L.I., N. Y.

Robot—Thermostats. Miller-Harris Instrument Co., Milwaukee, Wis.

Rocket—Water Heaters. Cleveland Heater Co., Cleveland, O.

Roesch—Clamps. C W R Mfg. Co., Morro Bay, Calif.

Roll-Kleen—Filters. Farr Co., Los Angeles, Calif.

Roll Matrix—Welding Rod. All-State Welding Alloys Co., Inc., White Plains, N. Y.

Roll-O-Mat—Filters. American Air Filter Co., Inc., Louisville, Ky.

Rollotron—Filters. American Air Filter Co., Inc., Louisville, Ky.

Roof Flange—Flashing. Eagle-Picher Co., Cincinnati, Ohio.

Roofkoter—Paint. Tropical Paint Co., Cleveland, Ohio.

Roof Line—Roof Ventilators. E. Van Noorden Co., Boston, Mass.

Roomaire—Air Conditioning Units. Young Radiator Co., Racine, Wis.

Rosin X—Flux. M. W. Dunton Co., Providence, R. I.

Rotary—Ventilators. Swartwout Fabricators, Inc., Kokomo, Ind.

Rotary-X-Changer—Heat Recovery Units. Heat Recovery Corp., Newark, N. J.

Roto—Insulating Cement and Combustion Chambers. Rex-Roto Corp., Detroit, Mich.

Roto-Clone—Dust Collectors. American Air Filter Co., Inc., Louisville, Ky.

Roto-Flame—Oil Burners. Oil Equipment Laboratories, Inc., Elizabeth, N. J.

Rotojet—Nozzles. Binks Mfg. Co., Chicago, Ill.

Rotomet—Flux. RotoMetals, San Francisco, Calif.

Rotometric—Solder. RotoMetals, San Francisco, Calif.

Rotospray—Air Washers. Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.

Royal—Furnaces. Chattanooga Royal Co., Chattanooga, Tenn.

Royal—Ventilators. Penn Ventilator Co. Inc., Philadelphia, Pa.

Royal—Water Heaters. Bastian-Morley Co., Inc., LaPorte, Ind.

Royalair—Grilles and Registers. Hart & Cooley Mfg. Co., Holland, Mich.

Royal Blue—Acid and Furnace Brushes. Schaefer Brush Mfg. Co., Milwaukee, Wis.

Royal Clipper—Portable Electric Shears. Merchandising and Manufacturing Associates, Inc., Lancaster, Pa.

Royal Purple—Barometric Draft Dampers. Walker Mfg. & Sales Corp., St. Joseph, Mo.

Rubalt—Paints, Waterproofing. Alfred Hague & Co., Inc., Div. of Lacquer & Chemical Corp., Brooklyn, N. Y.

Rubber Calk—Sealants for Curtain Wall Panels. Products Research Co., Burbank, Calif.

Rubber-in-Shear—Vibration Isolating Pads. Korfund Co., Westbury, L. I., N. Y.

Rubbon—Solder. All-State Welding Alloys Co., Inc., White Plains, N. Y.

Rustbloc—Rust Preventive Chemicals. Turco Products, Inc., Wilmington, Calif.

Rustend—Rust Preventive Chemicals. American Sand-Banum Co., Inc., Merrick, N. Y.

Rustmaster—Paint. Glidden Co., Cleveland, O.

Rustrem—Aluminum Paint. Speco, Inc., Cleveland, Ohio.

Rust Sol—Metal Cleaner. Klem Chemicals, Inc., Dearborn, Mich.

Ryson—Ventilators. Sioux Steel Co., Sioux Falls, S. D.

S

SC—Bearings. Dodge Mfg. Corp., Mishawaka, Ind.

SC Airditioner—Air Conditioning Units. Modine Mfg. Co., Racine, Wis.

SCM—Bearings. Dodge Mfg. Corp., Mishawaka, Ind.

S.D.T. Freeze Proof—Coils. John J. Nesbitt, Inc., Philadelphia, Pa.

S-E—Gravity Roof Ventilators. Hirschman-Pohle Co., Inc., LeRoy, N. Y.

SGP—Gas Conversion Burners. Security Mfg. Co., Kansas City, Mo.

S-L—Bar Folders, Nibblers, Slitting Machines. St. Louis Tool Co., St. Louis, Mo.

SL—V-Belts. Dodge Mfg. Corp., Mishawaka, Ind.

S.R.P. 75—Sheet Metal Paint. L. Sonneborn Sons, Inc., New York, N. Y.

S.R.P. 87—Sheet Metal Paint. L. Sonneborn Sons, Inc., New York, N. Y.

Sabco—Aluminum Paint. American Sand-Banum Co., Inc., Merrick, N. Y.

SaberSaw—Saw Attachment. Thor Power Tool Co., Aurora, Ill.

Saf-Aire—Furnaces. Stewart-Warner Corp., Heating and Air Conditioning Div., Indianapolis, Ind.

Safe-Guard—Protective Paper for Polished Metal Surfaces. Adhesive Tape Corp., Brooklyn, N. Y.

Safe-Hi—Ladder Shoes. Rose Mfg. Co., Denver, Colo.

Safe-T-Matic—Masonry Nail Driver. Safety Nail Driver Corp., Clifton, N. J.

Safetak—Adhesives. Cain Mfg. Inc., Birmingham, Ala.

Safeway—Warehouse Trucks. American Pulley Co., Philadelphia, Pa.

- Sahti-Vent**—Furnaces H. C. Little Burner Co., Inc., San Rafael, Calif.
- Sago-Treet**—Fuel Oil Tank Solvent. Schaefer Chemical Products Co., Saginaw, Mich.
- St. Louis**—Stoker. Ormsby-Osterman Co., St. Louis, Mo.
- Saisret**—Refractories. A. P. Green Fire Brick Co., Mexico, Mo.
- Samco**—Cement. Standard Asbestos Mfg. Co., Chicago, Ill.
- Samco**—Incinerators. Syral Mfg. Co., Syracuse, N. Y.
- Sampson**—Furnace Brushes. Worcester Brush & Scraper Co., Div. Mason Worcester Brush Co., Worcester, Mass.
- Sand-Banum**—Water Conditioners. American Sand-Banum Co., Inc., Merrick, N. Y.
- Sands**—Water Heaters. Sands Mfg. Co., Cleveland, O.
- San-Equip**—Fuel Storage Tanks. Vega Industries, Inc., Syracuse, N. Y.
- Sanitaire**—Sterilizing Lamps for Duct Installation, Air Sterilizers. Atlantic Ultraviolet Co., Inc., Long Island City, N. Y.
- Sanpan**—Plastic Panels. Marco Co., East Orange, N. J.
- Santolene**—Fuel Oil Solvent. Monsanto Chemical Co., St. Louis, Mo.
- Saran**—Cleanable Air Filters. Time Tested Products Co., Houston, Tex.
- Satanite**—Refractories. A. P. Green Fire Brick Co., Mexico, Mo.
- Saturol**—Degreasing Compound, Fuel Oil Tank Solvents. Oakite Products Inc., New York, N. Y.
- Sav-A-Tank**—Rust Preventive. Sudbury Laboratory, Sudbury, Mass.
- Sav-Haf**—Oil Burners. Breeze Corp., Inc., Newark, N. J.
- Saw Gun**—Electric Hack Saw. Mid-States Welder Mfg. Co., Chicago, Ill.
- Sawmaster**—Power Hack Saws. Miller-Knuth Mfg. Co., Auburn, Nebr.
- Sawzall**—Electric Saws and Attachments, Electric Drills. Milwaukee Electric Tool Corp., Milwaukee, Wis.
- Sax**—Oil Burners. Aldrich Co., Wyoming, Ill.
- Scale-Clean**—Condenser and Coil Cleaning Compound. Dearborn Chemical Co., Chicago, Ill.
- Scalex**—Cleaning Compounds. Lester Laboratories, Inc., Atlanta, Ga.
- Schenck**—Balancing Equipment. Cosa Corp., New York, N. Y.
- Schild-Bilt**—Attic Fans. Fresh Air Circulator Co., Houston, Tex.
- Schmidt**—Soldering and Brazing Torches. Minn-Kota Foundry & Mfg. Co., Moorhead, Minn.
- Scoop-Rail**—Duct Turning Vanes. Cain Mfg. Inc., Birmingham, Ala.
- Scorbord**—Edge Insulation. Dow Chemical Co., Midland, Mich.
- Scotch**—Adhesive Duct Tape. Minnesota Mining & Mfg. Co., Coated Abrasives and Related Products Div., St. Paul, Minn.
- Scotchply**—Plastic Sheets. Minnesota Mining & Mfg. Co., Coated Abrasives and Related Products Div., St. Paul, Minn.
- Scottfoam**—Fibers for Air Filters. Scott Paper Co., Chester, Pa.
- Screw-King**—Variable Speed Transmissions. American Pulley Co., Philadelphia, Pa.
- Screw-Tite**—Nails. Independent Nail & Packing Co., Bridgewater, Mass.
- Scrugun**—Automatic Screw Driver. Black & Decker Mfg. Co., Towson, Md.
- Scuf-Champ**—Vapor Barrier for Crawl Spaces. Ludlow Papers, A Division of Ludlow Corp., Needham Heights, Mass.
- Sealap**—Roofing Cement. Johns-Manville, New York, N. Y.
- Seal'd Vent**—Furnaces. Bastian-Morley Co., Inc., La Porte, Ind.
- Sealed-Life**—V-Belts. Dodge Mfg. Corp., Mishawaka, Ind.
- SealMaster**—Bearings. Stephens-Adamson Mfg. Co., Aurora, Ill.
- Sealtak**—Duct Joint Sealers. Cain Mfg. Inc., Birmingham, Ala.
- Sealtight**—Roof Cement, Caulking Compounds, Roofing Felt. W. R. Meadows, Inc., Elgin, Ill.
- Seal-Tight**—Filter Frames and Filter Frame Sealing Gaskets. George Evans Corp., Moline, Ill.
- Sealtight**—Waterproofing Materials. Coopers Creek Chemical Corp., West Conshohocken, Pa.
- Seal-Tite**—Registers. Char-Gale Mfg. Co., Minneapolis, Minn.
- Seal-Tite**—Ducts and Duct Fittings, Dampers, Draft Diverters, Small Pipe Heating Systems, Prefabricated Plenum Chambers, Furnace Pipe and Fittings. Williamson Co., Cincinnati, O.
- Sealtite**—Roof Cement and Felt Roofing. Keasbey & Mattison Co., Ambler, Pa.
- Seasonmaker**—Air Conditioning Units, Evaporative Coolers. McQuay, Inc., Minneapolis, Minn.
- Seasonmaster**—Air Conditioning Units. McQuay, Inc., Minneapolis, Minn.
- Seazonaire**—Unitary Air Conditioners. Marlo Coil Co., St. Louis, Mo.
- Seilon**—Plastic Panels, Non-Metallic Sheets. Seiberling Rubber Co., Plastics Div., Newcomerstown, O.
- Selectaflo**—Controls. Controls Div. of American-Standard, Detroit, Mich.
- Selectair**—Air Conditioning Units. S. T. Johnson Co., Oakland, Calif.
- Select-Aire**—Furnaces. Metzger Machine & Engineering Co., Thermoflo Div., Milwaukee, Wis.
- Select-O-Speed**—Variable Speed Transmissions. Lovejoy Flexible Coupling Co., Chicago, Ill.
- Selectra**—Control Systems. Maxitrol Co., Southfield, Mich.
- Selectric**—Storage Water Heaters. Bastian-Morley Co., Inc., LaPorte, Ind.
- Sells**—Bearings. Royersford Foundry & Machine Co., Royersford, Pa.
- Semco**—Dies, Sheet Metal Working Machines. Service Machine Co., Inc., Elizabeth, N. J.
- Sems**—Sheet Metal Screws. Shakeproof Div., Illinois Tool Works, Elgin, Ill.
- Sems**—Screws. Parker-Kalon Div. of General American Transportation Corp., Clifton, N. J.
- Sensatherm**—Thermostats. Mercoid Corp., Chicago, Ill.
- Sensitrol**—Electric Relays. Daystrom-Weston Sales Div., Daystrom Inc., Newark, N. J.
- Sentinel**—Gas Water Heaters. Holly-General Co., Pasadena, Calif.
- Sentry**—Tank Gauges. Krueger Sentry Gauge Co., Green Bay, Wis.
- Service-Master**—Truck Bodies. McCabe Powers Auto Body Co., St. Louis, Mo.
- Service-Twins**—Truck Bodies. McCabe Powers Auto Body Co., St. Louis, Mo.
- Shafconaire**—Induced Draft Blower, Furnaces, Direct Fired Heaters, Duct Heaters. OverHead Heaters, Inc., Detroit, Mich.
- Shafer**—Bearings. Chain Belt Co., Milwaukee, Wis.
- Shaft-King**—Variable Speed Transmissions. American Pulley Co., Philadelphia, Pa.
- Shear-Flex**—Vibration Isolating Bases and Pads. Vibration Mountings and Controls Inc., Corona, N. Y.
- Shelhed**—Oil Burners. Waterair Co., Medford, Mass.
- Shock Absorbing**—Pillow Blocks. Triangle Mfg. Co., Oshkosh, Wis.
- Shopmaster**—Sheet Metal Working Machines. Engel Sheet Metal Equipment, Inc., St. Louis, Mo.
- Shopmate**—Electric Buffers, Grinders, Polishers and Sanders, Electric Drills, Saws and Attachments. Portable Electric Tools, Inc., Geneva, Ill.
- Shorty**—Furnaces. John Zink Co., Tulsa, Okla.
- Shur-Flo**—Power Draft Units. Walker Mfg. and Sales Corp., St. Joseph, Mo.
- Shur Grip**—File and Solder Iron Handles. Duro-Dyne Corp., Farmingdale, N. Y.
- Shut-O-Vent**—Louvers and Shutters. Reed Unit-Fans, Inc., New Orleans, La.
- Sierra Air**—Evaporative Coolers. International Sales Co., San Francisco, Calif.
- Sievert**—Soldering Furnaces and Torches. J. A. Sanders, Fulton, N. Y.
- Sil-Bond**—Silver Solder. United Wire & Supply Corp., Providence, R. I.
- Silensair**—Sound Absorbers for Ducts. Sound Reduction Corp., East Hartford, Conn.
- Silent Duct**—Flexible Duct Connections. Elgen Mfg. Corp., Long Island City, N. Y.
- Silentflow**—Sound Absorbers for Duct Systems. Silence, Inc., Farmingdale, N. Y.
- Silent Knight**—Shut Off Valves. White-Rodgers Co., St. Louis, Mo.
- Silent Korth**—Oil Burners. Eckhart Mfg. Co., Inc., Union, N. J.
- Silentride**—V Belts. Zatko Metal Products Co., Euclid, O.
- Silentube**—Sound Absorbers for Ducts. Sound Reduction Corp., East Hartford, Conn.
- Sil-Flux**—Flux. United Wire & Supply Corp., Providence, R. I.
- Sil-Fos**—Solder. Handy & Harman, New York, N. Y.
- Silicon Bronze**—Bolts. Chase Brass & Copper Co., Inc., Waterbury, Conn.
- Silool**—Fuel Oil Tank Solvent. Petroleum Solvents Corp., New York, N. Y.
- Siloy-Soder**—Solder. L. B. Allen Co., Inc., Chicago, Ill.
- Silvercel**—Duct Insulation. Silvercote Products, Inc., Chicago, Ill.
- Silver-Champ**—Building Insulation. Ludlow Papers, A Division of Ludlow Corp., Needham Heights, Mass.
- Silver-Soder**—Solder. L. B. Allen Co., Inc., Chicago, Ill.
- Silver Steel**—Band Saw and Hack Saw Blades. E. C. Atkins & Co., Indianapolis, Ind.
- Sil Weld**—Solder. Eutectic Welding Alloys Corp., Flushing, N. Y.
- Simplex**—Vise. Desmond-Stephan Mfg. Co., Urbana, O.
- Sim-trol**—Barometric Dampers. Simplex Mfg. Co., Fond du Lac, Wis.
- Sioux**—Drills, Electric Saw Blades, Grinders, Metal Spray Guns, Sanders. Albertson & Co., Inc., Sioux City, Iowa.
- Siphon**—Roof Ventilators. Octagon Ventilator Mfg. Co., Jackson, Tenn.
- Sirocco**—Blowers, Washers. American-Standard Industrial Div., Detroit, Mich.
- Sisalite**—Vapor Barriers. American Sisalkraft Corp., Attleboro, Mass.
- Sisolation**—Reflective Insulation. American Sisalkraft Corp., Attleboro, Mass.
- Skimmer**—Dust Collectors. American Air Filter Co., Inc., Louisville, Ky.

Sky-Blast—Roof Ventilators. Propellair Div., Robbins & Myers, Inc., Springfield, O.

Skydome—Skylights. Wasco Products, Inc., Cambridge, Mass.

Skyline—Roof Ventilators. Arex Co., Chicago, Ill.

Skymaster—Roof Ventilators. Acme Engineering & Mfg. Corp., Muskogee, Okla.

Slack Tube—Gages. F. W. Dwyer Mfg. Co., Michigan City, Ind.

Slatekote—Roofing Felt. Johns-Manville, New York, N. Y.

Sleekline—Furnaces. Heil-Quaker Corp., Nashville, Tenn.

Sleek-Line—Roof Ventilators. E. Van Noorden Co., Boston, Mass.

Sleevoil—Bearings. Dodge Mfg. Corp., Mishawaka, Ind.

Slim Jim—Air Conditioning Units. Air Products, St. Louis, Mo.

Slim/Trim—Electric Heaters. Modern-heat Cable Corp., Kingsport, Tenn.

Slo-Speed—Motors. Sterling Electric Motors, Inc., Los Angeles, Calif.

Sloss—Building Insulation. U. S. Pipe & Foundry Co., Birmingham, Ala.

Sludgemaster—Fuel Oil Tank Solvent. Stewart-Hall Chemical Corp., Mt. Vernon, N. Y.

Sludge Solvent—Fuel Oil Tank Solvents. Montgomery Chemical Co., Jenkintown, Pa.

Sludgout—Fuel Oil Tank Solvent. Metropolitan Refining Co., Inc., Long Island City, N. Y.

Slugger—Pneumatic Hammer. Modern Mfg. Co., Inc., Willow Grove, Pa.

Smith's—Cleat Benders. R. E. Smith, Waukegan, Ill.

Smokehatch—Roof Ventilators. Penn Ventilators Co., Inc., Philadelphia, Pa.

Smokeport—Roof Ventilators. Penn Ventilator Co., Inc., Philadelphia, Pa.

Snap Action—Humidifier Valves. McDonnell & Miller, Inc., Chicago, Ill.

Snap-in—Dampers. Warm Air Pipe. Standard Metal Fabricating Co., Omaha, Nebr.

Snaplok—Furnace Pipe. Reeves Steel & Mfg. Co., Div. of Empire-Reeves Steel Corp., Dover, Ohio.

Snapo—Rivet Guns. Richline Co., Inc., Minneapolis, Minn.

Snap-On—Gutter Guards. Lockhart Mfg. Corp., Detroit, Mich.

Snaprite—Gutter Fittings. Berger Mfg. Div., Republic Steel Corp., Canton, Ohio.

Snip-it—Filters. C.L.B. Co., Houston, Tex.

Sno-fluf—Evaporative Cooler Mats. Palmer Industries, Inc., Phoenix, Ariz.

Soder—Solder. L. B. Allen Co., Inc., Chicago, Ill.

Sod-R-Braze—Soldering Torches. National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.

Softite—Steel Sheets. Wheeling Steel Corp., Wheeling, W. Va.

Soilgon—Degreasing Compounds. Stewart-Hall Chemical Corp., Mt. Vernon, N. Y.

Sola-Flame—Oil Burners. East Coast Co., Boston (Wellesley), Mass.

Solair—Baseboard Diffusers. H & N Sheet Metal Fabricating Co., Inc., Deer Lodge, Mont.

Solar Air—Furnaces. North Coast Mfg. Corp., Portland, Ore.

Solder Paint—Solder. Fluxolder Products Co., Detroit, Mich.

Solderprep—Flux for Steel. Neilson Chemical Co., Detroit, Mich.

Solex—Heat Insulating Windows. Pittsburgh Plate Glass Co., Pittsburgh, Pa.

Sol-Flux—Soldering Flux. Klem Chemical Works, Dearborn, Mich.

Solvex—Cleaning Compound. Chemical Solvent Co., Birmingham, Ala.

Sonite—Caulking Compounds. Smooth-on Mfg. Co., Jersey City, N. J.

Sonoairduct—Non-metallic Ducts. Sonoco Products Co., Construction Products Div., Hartsville, S. C.

Sonobraze—Ultrasonic Welders. Sonobond Corp., Subsidiary of Aeroprojects, Inc., West Chester, Pa.

Sonolastic—Caulking Compounds, Asphalt Paint. L. Sonneborn Sons, Inc., New York, N. Y.

Sonosolder—Ultrasonic Welders. Sonobond Corp., Subsidiary of Aeroprojects, Inc., West Chester, Pa.

Sonotrol—Roof Ventilator Curbs. Penn Ventilator Co., Inc., Philadelphia, Pa.

Sonoweld—Ultrasonic Welders. Sonobond Corp., Subsidiary of Aeroprojects, Inc., West Chester, Pa.

Soot Destroyer—Soot Removers. Sid Harvey, Inc., Valley Stream, N.Y.

Soot Master—Furnace Vacuum Cleaners. Master-Craft Industries, Inc., Garfield, N. J.

Sootracide—Soot Remover. Metropolitan Refining Co., Inc., Long Island City, N. Y.

Sootspray—Soot Remover. Stewart-Hall Chemical Corp., Mt. Vernon, N. Y.

Soroco—Chimney Caps and Tops. Southbridge Roofing Co., Inc., Southbridge, Mass.

Soundscope—Sound Level Meters. Mine Safety Appliances Co., Pittsburgh, Pa.

Southern—Sheet Metal Screws. National Lead Co., New York, N. Y.

Southern Air—Furnaces. North Coast Mfg. Corp., Portland, Ore.

Southwest Air—Unitary Air Conditioners. Westprest Inc., Amarillo, Tex.

Spacesaver—Suspended Furnaces. The Payne Co., La Puente, Calif.

Sparktrodes—Electrodes. Dielectric Products Co., Inc., Jersey City, N. J.

Special—Furnaces. The Williamson Co., Cincinnati, O.

Special X—Flux. Industrial Service Laboratories, Milwaukee, Wis.

Speco—Soldering Flux. Pfanzstiel Laboratories, Inc., Waukegan, Ill.

Speed-D—Self-Drilling Sheet Metal Screws. Air Control Products, Inc., Coopersville, Mich.

Speed Drills—Drills. Speedway Mfg. Co., Div. of Thor Power Tool Co., LaGrange Park, Ill.

Speed Grinders—Grinders. Speedway Mfg. Co., Div. of Thor Power Tool Co., LaGrange Park, Ill.

Speed Motors—Electric Motors. Speedway Mfg. Co., Div. of Thor Power Tool Co., LaGrange Park, Ill.

Speednotch—Notching Machine. Lock-former Co., Chicago, Ill.

Speedomax—Recorders. Leeds & Northrup Co., Philadelphia, Pa.

Speed Polishers—Polishers. Speedway Mfg. Co., Div. of Thor Power Tool Co., LaGrange Park, Ill.

Speed-Rail—Pipe Fittings. Hollaender Mfg. Co., Cincinnati, O.

Speed Sanders—Sanders. Speedway Mfg. Co., Div. of Thor Power Tool Co., LaGrange Park, Ill.

Speed-Trol—Transmissions, Motors. Sterling Electric Motors, Inc., Los Angeles, Calif.

Speedy-Cals—Name Plates. Anodyne, Inc., Div. North Shore Nameplate, Inc., Bayside, L.I., N. Y.

Spher-Align—V-Belts. Dodge Mfg. Corp., Mishawaka, Ind.

Spic-Span—Furnace Vacuum Cleaners. Premier Co., St. Paul, Minn.

Spin-On—Fuel Oil Filters. Wix Corp., Gastonia, N. C.

Spinner—Ventilators. Inland Steel Products Co., Milwaukee, Wis.

Spintex—Insulation. Johns-Manville, New York, N. Y.

Split-Aire—Air Conditioning Units. Penn Boiler Div., Pebbco Industries Inc., Lancaster, Pa.

Spongex—Vibration Isolating Pads, Seals for Registers. B. F. Goodrich Co., Sponge Products Shelton, Conn.

Spot-Aire—Air Conditioning Units. Drayer-Hanson, Div. of National-U.S. Radiator Corp., Los Angeles, Calif.

Spraco—Spray Guns, Humidifiers, Nozzles, Air Washers. Spray Engineering Co., Burlington, Mass.

Spra-Rite—Nozzles. Binks Mfg. Co., Chicago, Ill.

SpraTower—Cooling Towers. The Marley Co., Kansas City, Mo.

Spray-Acoustic—Insulation. Sprayo-Flake Co., Chicago, Ill.

Spray-Cote—Insulation. Sprayo-Flake Company, Chicago, Ill.

Sprayit—Paint Guns. Thomas Industries Inc., Electric Sprayit Div., Sheboygan, Wis.

Spray Pak—Paint. Chase Products, Inc., Broadview, Ill.

Spray-Rod—Paint Spray Guns. Eclipse Air Brush Co., Newark, N. J.

Spray-Seal—Insulation. Sprayo-Flake Co., Chicago, Ill.

Spraywelder—Metal Spray Guns. Wall Colmonoy Corp., Detroit, Mich.

Spray Wheel—Air Washers, Evaporative Coolers. Mountain States Equipment Co., Denver, Colo.

Spread Heat—Gas Conversion Burners. Barber Mfg. Co., Cleveland, O.

Spring-Flex—Vibration Absorbers, Vibration Isolating Bases and Pads. Vibration Mountings and Controls Inc., Corona, N. Y.

Springin—Toggle Bolts. Star Expansion Bolt Co., New York, N. Y.

Spunsteel—Pulleys. Spun Steel Corporation, Canton, Ohio.

Squarehed—Aluminum Nails. Independent Nail & Packing Co., Bridgewater, Mass.

Stainless 20—Stainless Clad Sheets. Lukens Steel Co., Coatesville, Pa.

Staintrode—Welding Rod. Eutectic Welding Alloys Corp., Flushing, N.Y.

Stak Heat-Reclaimer—Heat Recoverer. Heat Reclaimer Mfg. Div., Dolin Metal Sales Corp., Brooklyn, N. Y.

Stamco—Metal Duct, Furnace Pipe, Fittings. Cincinnati Stamping & Furnace Co., Cincinnati, Ohio.

Standard—Roof Ventilators. Burt Mfg. Co., Akron, Ohio.

Standard—Snow Guards. Cromley's, Lewisburg, Pa.

Standard—Furnace. Farris Furnace Co., Springfield, Ill.

Standard—Furnaces. Williamson Heater Co., Cincinnati, Ohio.

Standard I.F.B.—Combustion Chambers. A. P. Green Fire Brick Co., Mexico, Mo.

Standard Speedmaster—Gas Water Heaters. Handley-Brown Co., Jackson, Mich.

Standard Stationary—Ventilators. Allen Ventilator Div., Production Planning Co., Rochester, Mich.

Standforated—Grilles. Standard Stamping & Perforating Co., Chicago, Ill.

Staps—Screws. Parker-Kalon Div. of General American Transportation Corp., Clifton, N. J.

Star—Hack Saw Blades. Clemson Bros., Inc., Middletown, N. Y.

Star—Oil Burners. Mortemp Corp., Seattle, Wash.
 Starfire—Water Heaters. Day & Night Mfg. Co., La Puente, Calif.
 Star-Flo—Fans. Walker Mfg. & Sales Corp., St. Joseph, Mo.
 Stark—Furnaces. Hess-Snyder Co., Massillon, Ohio.
 Star Kap—Chimney Caps and Tops. Walker Mfg. & Sales Corp., St. Joseph, Mo.
 Sta-Steel—Soldering Flux. London Chemical Co., Melrose Park, Ill.
 Statick—Ventilators. Hirschman-Pohle Co., Inc., LeRoy, N. Y.
 Statronic—Electronic Air Cleaners. CRS Industries, Inc., Philadelphia, Pa.
 Staxausters—Ventilators. Allen Ventilator Div., Production Planning Co., Rochester, Mich.
 Staynew—Air Filters. Dollinger Corp., Rochester, N. Y.
 Stay-Put—Duct and Pipe Anchors. Southern Mist Products Co., Evanston, Ill.
 SteelArc—Welding Rod. All-State Welding Alloys Co., Inc., White Plains, N. Y.
 Steel Cable—V-Belts. Goodyear Tire & Rubber Co., Akron, Ohio.
 Steelco—Gutter Guards. Steele Mfg. Co., Ashland, Ky.
 Steeldek—Metal Roof Decking. Penn Metal Co., Inc., Boston, Mass.
 Steelfab—Squaring Shears & Presses. Highland Engineering Co., Santa Monica, Calif.
 Steelfin—Heating Coils. New York Blower Co., Chicago, Ill.
 Steelflex—Flexible Hose and Fittings. Universal Metal Hose Co., Chicago, Ill.
 Steelteck—Welding Rod. Eutectic Welding Alloys Corp., Flushing, N. Y.
 Steel-Tex—Caulking Compound. Travaco Laboratories, East Boston, Mass.
 Steelweld—Sheet Metal Working Machinery. Cleveland Crane & Engineering Co., Wickliffe, Ohio.
 Steep-Slope—Fireplace Draft Dampers. Bennett-Ireland, Inc., Norwich, N. Y.
 Sterilamp—Germicidal Lamps. Westinghouse Electric Corp., Lamp Div., Bloomfield, N. J.
 Sterling Beader—Beading Machines. Robertson Machine and Foundry, Buffalo, N. Y.
 Stic-Tite—Adhesives, Cement. Refractory & Insulation Corp., New York, N. Y.
 Stok-A-Timer—Stoker Controls. Merco Corp., Chicago, Ill.
 Stoker-Disk—Baffles. Insulation & Refractories Co., Webster, N. Y.
 Stokerelay—Relays. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Stokol—Stokers. Eddy Stoker Corp., Wheeling, Ill.
 Stonewell—Asbestos-Cement Board. Rubberoid Co., New York, N. Y.
 Stop-It—Waterproofing. Tamms Industries Co., Chicago, Ill.
 Stor-Heat—Heat Storage Units for Warm Air Furnaces. A. M. Hexdall Co., Morris, Ill.
 Stormguard—Gutter Accessories. W. H. Maze Co., Peru, Ill.
 Storm-Pruf—Oil Burner Vent Caps. Bearlee Products Co., Green Bay, Wis.
 Stormseal—Sheet Metal Roofing. American Steel & Wire Div., United States Steel Corp., Cleveland, Ohio; United States Steel Corp., Pittsburgh, Pa.
 Stormtight—Roof Cement and Paint. L. Sonneborn Sons, Inc., New York.
 Stowaway—Suspended Furnaces. Lennox Industries Inc., Marshalltown, Iowa.
 Strato Cap—Roof Ventilators. Ryniker Steel Products Co., Billings, Mont.

Streamjet—Water Nozzles. Spraying Systems Co., Bellwood, Ill.
 Streamline—Ridge Ventilators. H. H. Robertson Co., Pittsburgh, Pa.
 Streamline—Copper Tubing and Fittings, Brushes for Cleaning Copper Fittings, Dehydrators, Heat Exchangers, Flux, Solder, Welding Rod, Refrigerant Charging Hose, Valves. Mueller Brass Co., Port Huron, Mich.
 Streamlined—Combustion Chambers. A. P. Green Fire Brick Co., Mexico, Mo.
 Streamliner—Directional Flow Registers. Auer Register Co., Cleveland, Ohio.
 Strongbarn—Metal Sheets, Corrugated Steel Roofing. Granite City Steel Co., Granite City, Ill.
 Stronghold—Nails. Independent Nail & Packing Co., Bridgewater, Mass.
 Strucsureal—Caulking Compounds. Prestite Div., American-Marietta Co., St. Louis, Mo.
 Stubby—Floor Furnace. Holly-General Co., Pasadena, Calif.
 Stubby—Furnace Vacuum Cleaners. Empire Chemical Products Co., Newark, N. J.
 Stud Driver—Stud Guns. Remington Arms Co., Inc., Bridgeport, Conn.
 Stud-Pak—Insulation. United States Mineral Wool Co., Stanhope, N. J.
 Stylist—Furnaces. Perfection Div., Hupp Corp., Cleveland, O.
 Stypolight—Plastic Panels. H. H. Robertson Co., Pittsburgh, Pa.
 Styrofoam—Building Insulation. Dow Chemical Co., Midland, Mich.
 Styx—Roof Cement. Coopers Creek Chemical Corp., West Conshohocken, Pa.
 Submatic—Electric Motors. Franklin Electric Co., Inc., Bluffton, Ind.
 Suburban—Furnaces. Samuel Stamping & Enameling Co., Chattanooga, Tenn.
 Sun-Glow—Furnaces. Mortemp Corp., Seattle, Wash.
 Sun-Heat—Electric Heaters and Radiators. Insto-Gas Corp., Detroit, Mich.
 Sun-Lite Aire—Air Sterilizers and Sterilizing Lamps for Duct Installation. Sampson Scientific Corp., Chicago, Ill.
 Sunnyaire—Gas Unit Heaters. Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Sunnyland—Furnaces, Air Conditioning Units. Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Super—Furnaces. The Williamson Co., Cincinnati, O.
 Super—Hangers and Fittings. Royal Apex Mfg. Co., Inc., Brooklyn, N. Y.
 Super—Heaters. Evans Products Co., Detroit, Mich.
 Super—Plastic Furnace Lining. Walsh Refractories Corp., St. Louis, Mo.
 Super—Furnace Vacuum Cleaners. Empire Chemical Products Co., Newark, N. J.
 Superair—Air Conditioning Furnaces. St. Louis Furnace Mfg. Co., St. Louis, Mo.
 Super Cycle—Electric Tools. Chicago Pneumatic Tool Co., New York, N. Y.
 Super Dry Eye—Refrigerant Dehydrators. Ansul Chemical Co., Refrigeration Div., Marinette, Wis.
 Super Ebontex—Waterproofing. Philip Carey Mfg. Co., Cincinnati.
 Super Filter Coat—Filter Coating Oil. Research Products Corp., Madison, Wis.
 Superfin—Furnaces and Unit Heaters. American Fdry. & Furnace Co., Bloomington, Ill.
 Super Finish Stic-Tite—Insulating Cement. Refractory & Insulation Corp., New York, N. Y.

SuperFirma—Gravity Roof Ventilators. Hirschman-Pohle Co., Inc., LeRoy, N. Y.
 Superflame—Gas Burners, and Furnaces. Queen Products Div., King-Seely Corp., Albert Lea, Minn.
 Super-Flo—Fans. John Zink Co., Tulsa, Okla.
 Super-Flo—Refrigerant Dehydrators. Remco, Inc., Zelienople, Pa.
 Superflo—Furnaces. The Payne Co., La Puente, Calif.
 Super Hybond—Refractories. A. P. Green Fire Brick Co., Mexico, Mo.
 Superior—Enamels. Blue Ridge Talc Co., Inc., Henry, Va.
 Superior—Blowers. American Foundry & Furnace Co., Bloomington, Ill.
 Superior—Water Heater. Crane Co., Plumbing, Heating, Air Conditioning Group, Johnstown, Pa.
 Super-Jet—Soldering Torches. Fusion Engineering, Cleveland, Ohio.
 Supermetac—Compressors. Servel, Inc., Evansville, Ind.
 Super Plastic—Refractories. A. P. Green Fire Brick Co., Mexico, Mo.
 Super-Por-Seal—Waterproofing. Truscon Laboratories, Detroit, Mich.
 Super Powerhouse—Insulating Cement. Baldwin-Hill Co., Trenton, N. J.
 Super Red Streak—Furnace Cleaners. National Super Service Co., Toledo, Ohio.
 Super-Saw—Electric Saws and Attachments. Millers Falls Co., Greenfield, Mass.
 Super-Set—Gas Conversion Burners. Downing Steel Products Co., Kettering, O.
 Super 66—Insulation. Eagle-Picher Co., Cincinnati, Ohio.
 Super Speed—Mouldings and Trim. Appleton Supply Co., Inc., Appleton, Wis.
 Super Suction—Furnace Vacuum Cleaners. National Super Service Co., Toledo, O.
 Supertemp—Insulation. Eagle-Picher Co., Cincinnati, Ohio.
 SuperTwist—Dust Recovery Bags. Master-Craft Industries, Inc., Garfield, N. J.
 Supreme—Combustion Chambers. Sandberg Mfg. Co., Portland, Ore.
 Supreme—Enamels. Blue Ridge Talc Co., Inc., Henry, Va.
 Supreme—Furnaces. Agricola Furnace Co., Inc., Gadsden, Ala.
 Supreme—Electric Hand Saws. Price & Rutzebeck, Hayward, Calif.
 Supreme—Furnaces. McPherson Furnace & Supply Co., Portland, Ore.
 Supreme—Flaring Tools. Schaul Mfg. Co., Cleveland, O.
 Supreme—Gas Water Heaters. Holly-General Co., Pasadena, Calif.
 Sure-Draft—Heating Plant Failure Alarms. Acme Equipment, Inc., Altoona, Pa.
 Sure Draft—Chimney Tops. H. C. Little Burner Co., Inc., San Rafael, Calif.
 Suredrane—Roofing. Reeves Steel & Mfg. Co., Div. of Empire-Reeves Steel Corp., Dover, O.
 Surefit—Ducts, Fittings, Dampers, Plenum Chambers, Furnace and Smoke Pipe. Henry Furnace Co., Medina, Ohio.
 Surefit—Plenum Chambers, Ducts, Duct Fittings, Dampers, Pipe and Fittings. The C. A. Olsen Mfg. Co., Elyria, O.
 Sure-Stik—Bonding Adhesives. Insulcotic Corp., Maspeth, N. Y.
 Sureweld—Welding Rod, Welders. National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.
 Swance—Galvanized Shingles. Berger

Mfg. Div., Republic Steel Corp., Canton, Ohio.
 Swif—Solder and Flux. Hercules Chemical Co., Inc., New York, N. Y.
 Swish—Cleaning and Degreasing Compounds. Montgomery Chemical Co., Jenkintown, Pa.
 Sylphon—Thermostats. Fulton Sylphon Div., Robertshaw-Fulton Controls Co., Knoxville, Tenn.
 Synchro-Valve—Gas Pressure Regulating Valves. Bristol Co., Waterbury, Conn.

T

TFC—Welding Rod. Tennessee Fabricating Co., Memphis, Tenn.
 T-Flo—Dehydrators. Ansil Chemical Co., Refrigeration Div., Marinette, Wis.
 T.M.—Stud Guns. Velocity-Power Tool Co., Pittsburgh, Pa.
 TMC—Refrigeration Driers. Tube Manifold Corp., North Tonawanda, N. Y.
 TO Silencer—Sound Absorbers, Sound and Volume Control Mixing Units for Double Duct High Velocity Air Conditioning Systems. Elof Hansson, Inc., Acoustical Div., New York, N. Y.
 TWC Weather Control—Controls. Tork Time Controls Inc., Mt. Vernon, N. Y.
 Table-Top—Water Heaters. Handley-Brown Co., Jackson, Mich.
 Tabletop—Water Heaters. American Radiator & Standard Sanitary Corp., Plumbing and Heating Div., New York, N. Y.
 Table Top—Water Heaters. National Steel Construction Co., Los Angeles, Calif.
 Tab-Lock—Blower Wheels. Torrington Mfg. Co., Torrington, Conn.
 Tag—Controls, Hygrometers, Recorders, Psychrometers, Thermometers. Weston Electrical Instrument Corp., Newark, N. Y.
 Tamineite—Metal Conditioner. Tamms Industries Co., Chicago, Ill.
 Tamco—Duct Fittings, Pipe and Fittings, Ventilators. Tiffin Art Metal Co., Tiffin, Ohio.
 Tam-Putty—Caulking Compound. Tamms Industries Co., Chicago, Ill.
 Tamtex—Paint. Tamms Industries Co., Chicago, Ill.
 Tank No-Corrode—Fuel Oil Tank Solvents. J. A. Sexauer Mfg. Co., Inc., New York, N. Y.
 Tank-O-Meter—Gauges. Uehling Instrument Co., Paterson, N. J.
 Taperlock—Fan & Motor Pulleys. Dodge Mfg. Corp., Mishawaka, Ind.
 Tapgun—Portable Electric Tapper. Black & Decker Mfg. Co., Towson, Md.
 Tapits—Self-Drilling Sheet Metal Screws. Parker-Kalon Div. of General American Transportation Corp., Clifton, N. J.
 Taylor—Stokers. American Engineering Co., Div. of United Industrial Corp., Philadelphia, Pa.
 Tapzall—Access Valve for Hermetic Refrigeration System. Superior Valve and Fittings Co., Pittsburgh, Pa.
 Teejet—Water Nozzles. Spraying Systems Co., Bellwood, Ill.
 Tee Joint—Duct and Duct Accessories. Inland Steel Products Co., Milwaukee, Wis.
 Teletrol—Blower Controls. Airgard Mfg. Co., Chicago, Ill.
 Teletube—Gas Burners. Barber Mfg. Co., Cleveland, O.
 Tel-Tru—Psychrometers, Thermometers, Smoke Testers, Air Testing Instruments. E. Vernon Hill & Co., Lake Geneva, Wis.

Temlock—Insulation. Armstrong Cork Co., Lancaster, Pa.
 Tempered-Aire—Furnaces. Engineering Industries Co., Ltd., Toronto, Ont., Canada.
 Temp-lo—Insulation. Lockport Mills Inc., Lockport, N. Y.
 Tempmaster—Thermostats. Crown Controls Co., Inc., New Bremen, Ohio.
 Tempo—Brazing Torches. American Products Corp., Chicago, Ill.
 Tempoint—Thermometer. Bacharach Industrial Instrument Co., Pittsburgh, Pa.
 Tempotherm—Controls. General Controls Co., Glendale, Calif.
 Temp-R-Izer—Gas Burners. Laharco Industries Inc., Minneapolis, Minn.
 Tempprobe—Indicating Thermometers. Victory Engineering Corp., Union, N. J.
 Tempscribe—Portable Temperature Recorder. Bacharach Industrial Instrument Co., Pittsburgh, Pa.
 Tennesseal—Sheet Metal Roofing. Tennessee Coal & Iron Div., U. S. Steel Corp., Fairfield, Ala.
 Tensilend—Welding Rod. Arcos Corp., Philadelphia, Pa.
 Tensulate—Insulation. Tennessee Products & Chemical Corp., Nashville, Tenn.
 Tesamoll—Filter Frame Sealing Gaskets. United Mineral & Chemical Corp., New York, N. Y.
 Tetler—Degreasing Compounds. Lester Laboratories, Inc., Atlanta, Ga.
 Texan—Water Heaters. Hotstream Heater Co., Cleveland, Ohio.
 Thawzone—Dehydrators. Highside Chemicals Inc., Clifton, N. J.
 Thermo-Cals—Name Plates. Anodyne, Inc., Div. North Shore Nameplate Inc., Bayside, L. I., N. Y.
 Thermaflex—Flexible Duct, Non-metallic Duct Fittings. Flexible Tubing Corp., Guilford, Conn.
 Thermal-Aire—Induced Draft Blowers. Garden City Fan & Blower Co., Niles, Mich.
 Thermalite—Paint. Tropical Paint Co., Cleveland, Ohio.
 Thermaload—Electrical Relays. Monitor Controller, Rockland, Mass.
 Thermo-Mark—Name Plates. Anodyne, Inc., Div. North Shore Nameplate Inc., Bayside, L. I., N. Y.
 Thermaster—Furnaces. Thatcher Furnace Co., Garwood, N. J.
 Thermidair—Furnaces. E. K. Campbell Co., Kansas City, Mo.
 Ther-Mist—Nozzles. TOT Towers Co., Houston, Tex.
 Thermo—Furnaces. American Furnace Co., St. Louis, Mo.
 Thermoanemometer—Anemometer. Willson Products, Inc., Reading, Pa.
 Thermo-Base—Baseboard Diffusers. Gerwin Industries, Inc., Thermo-Base Div., Michigan City, Ind.
 Thermo-Bloc—Edge Insulation. National Gypsum Co., Buffalo, N. Y.
 Thermobloc—Direct Fired Heaters. The Wanson Corp., Lewistown, Pa.
 Thermo-Bord—Non-Metallic Sheets. Philip Carey Mfg. Co., Cincinnati, O.
 Thermo-Dri—Humidifier. Automatic Humidifier Co. Div., Standard Mfg. Co., Cedar Falls, Iowa.
 Thermoflow—Roof Ventilators. Western Engineering & Mfg. Co., Venice, Calif.
 Thermo-Humidigraph—Hygrometers. Bristol Co., Waterbury, Conn.
 Thermoil-Granodine—Coating Chemical for Steel or Iron Surfaces. Amchem Products, Inc., Ambler, Pa.
 Thermo Lo—Brazing Flux. Farrelloy Co., Philadelphia, Pa.

Thermoloks—Locks for Thermostats. Thermolok Mfg. Co., Inc., Franklin Sq., L. I., N. Y.
 Thermo-Pace—Furnaces and Burners. Thermo-Products, Inc., North Judson, Ind.
 Thermopane—Insulated Window Glass. Libbey-Owens-Ford Glass Co., Toledo, O.
 Thermopilot—Controls. General Controls Co., Glendale, Calif.
 Thermo-Pride—Unitary Air Conditioners. Thermo-Products, Inc., North Judson, Ind.
 Thermoramic—Controls. General Controls Co., Glendale, Calif.
 Thermoswitch—Controls. Fenwal, Inc., Ashland, Mass.
 Thermotex B—Insulating Cement. Waterproofing. Philip Carey Mfg. Co., Cincinnati, O.
 Thermowall—Baseboard Diffusers. Ry-niker Steel Products Co., Billings, Mont.
 Thinline—Air Conditioning Units. General Electric Co., Room Air Conditioner Dept., Major Appliance Div., Louisville, Ky.
 Thin-Man—Registers. Register & Grille Mfg. Co., Inc., Brooklyn, N. Y.
 Thirs-Tee—Humidifier Plates. Viking Air Products Div. of The Lau Blower Co., Cleveland, O.
 Thomas A. Edison—Dehumidifiers, Unitary Air Conditioners. Albion Div., McGraw-Edison Co., Albion, Mich.
 Thorobred—V Belts. Dayton Industrial Products Co., Melrose Park, Ill.
 Three-Phase—Welders. Sciaky Bros., Chicago, Ill.
 370 Special—Paints. Thompson & Co., Oakmont, Pa.
 Thrift-Tower—Cooling Towers. Marlo Coil Co., St. Louis, Mo.
 Thru-The-Wall—Furnaces. Chattanooga Royal Co., Chattanooga, Tenn.
 Thru-Vent—Wall Furnaces. Commonwealth Co., Alhambra, Calif.
 Thulman—Metal Fireplaces, Gas Vents. Prefabricated Chimneys. Chimney Sales Corp., Washington, D. C.
 Thunder Bolt—Expansion Bolts. Universal Fastenings Corp., Farmingdale, L. I., N. Y.
 Thunder-Jet—Fans. Belco Industries, Inc., St. Louis, Mo.
 Thunder-Twist—Carbide Tipped Bits, Chuck Wrenches. New England Carbide Tool Co., Inc., Medford, Mass.
 Ti-Co—Sheets and Steel Roofing. Inland Steel Co., Chicago, Ill.
 Time-O-Switch—Time Switches. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Timerelay—Relays. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Tin-Ezy—Flux. Johnson Mfg. Co., Inc., Mount Vernon, Ia.
 Tinezy—Solder. Farrelloy Co., Inc., Philadelphia, Pa.
 Tinner's Red—Paint. Pittsburgh Plate Glass Co., Pittsburgh, Pa.
 Tinol—Soldering Flux. American Solder & Flux Co., Philadelphia, Pa.
 Tin Weld—Solder. Eutectic Welding Alloys Corp., Flushing, N. Y.
 Titekote Paint Seal—Steel Sheets. Reeves Steel & Mfg. Co., Div. of Empire-Reeves Steel Corp., Dover, O.
 Tite-Lite—Caulking Compound. Truscon Laboratories, Detroit, Mich.
 TiteLock—Duct and Duct Accessories, Gutter Accessories, Furnace Pipe and Fittings. Inland Steel Products Co., Milwaukee, Wis.
 Titesal—Furnace Cement. Radiator Specialty Co., Charlotte, N. C.

Tobin Bronze—Plates and Welding Rod. American Brass Co., New York, N. Y.

Tocoseal—Roof Cement. Tropical Paint Co., Cleveland, Ohio.

Tool Line—Grinders. Brown-Brockmeyer Co., Inc., Dayton, O.

Toolmaster—Sheet Metal Working Machines. Fidelity Tool Supply, Inc., Camden, N. J.

Topseal—Sheet Metal Fastenings. Fabricated Products Co., West Newton, Pa.

Torchweld—Torches. National Cylinder Gas Div. of Chemetron Corp., Chicago, Ill.

Tork-Grip—Tube Benders. Parker Fittings & Hose Div., Parker-Hannifin Corp., Cleveland, O.

Torkmaster—Switches. Tork Time Controls Inc., Mt. Vernon, N. Y.

Tornado—Dust Collectors, Furnace Vacuum Cleaners. Breuer Electric Mfg. Co., Chicago, Ill.

Torpedo—Refrigerant Dehydrators, Driers and Strainers for Refrigeration Systems. Imperial Brass Mfg. Co., Chicago, Ill.

Torrid Zone—Furnaces. Lennox Industries, Inc., Marshalltown, Iowa.

Totalume—Aluminum Paint. Wilbur & Williams Co., Norwood, Mass.

Totrust—Paints, Enamels. Wilbur & Williams Co., Norwood, Mass.

Trace—Leak Detectors. Highside Chemicals Inc., Clifton, N. J.

Tramrail—Hoists, Monorails. Cleveland Crane & Engineering Co., Wickliffe, Ohio.

Transite—Gas Vents, Asbestos Duct, Asbestos Sheet. Johns-Manville, New York, N. Y.

Transitop—Non-Metallic Sheets. Johns-Manville, New York, N. Y.

Transparent—CO₂ Analyzers. F. W. Dwyer Mfg. Co., Michigan City, Ind.

Trentweld—Steel Tubing. Crucible Steel Co. of America, Pittsburgh, Pa.

Triclene—Metal Cleaner. E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.

Trico—Draft Diverters, Furnaces, Duct and Duct Accessories, Furnace Pipe and Fittings. Tri-State Heating Supply Inc., Fort Wayne, Ind.

Tri-Flex—Grilles, Registers. Tuttle & Bailey Div. of Allied Thermal Corp., New Britain, Conn.

Tri-Flux—Electric Motors. Redmond Co., Inc., Subsidiary of Controls Co. of America, Owosso, Mich.

Tri-Flux—Soldering Flux. Wolfe-Kote Co., Sheboygan, Wis.

Trim-Boy—Furnaces. Coleman Co., Inc., Wichita, Kans.

Trimedge—Moldings and Trim. William L. Bonnell Co., Inc., Newman, Ga.

Trimline—Furnaces. Perfection Div., Hupp Corp., Cleveland, O.

Trim-Lok—Damper Hardware. R.I.N.-C.O., Altadena, Calif.

Trim-To-Size—Filters. Research Products Corp., Madison, Wis.

Tripl-Aire—Registers and Grilles. Hart & Cooley Mfg. Co., Holland, Mich.

Triple A—Paints. Quigley Co., Inc., New York, N. Y.

Triple-Lok—Copper Tube Fittings. Parker Fittings & Hose Div., Parker-Hannifin Corp., Cleveland, Ohio.

Tripl-Lock—Roofing Nails. The Deniston Co., Chicago, Ill.

Trisolvadiene—Metal Cleaners. Colonial Alloys Co., Philadelphia, Pa.

Troma—Refrigerants. American Potash & Chemical Corp., Los Angeles, Calif.

Tropicalk—Caulking Compounds. Tropical Paint Co., Cleveland, Ohio.

Tropic Breeze—Furnaces. Dalzen Mfg. Co., St. Clair, Mich.

True-Spot—Smoke Testers. Bacharach Industrial Instrument Co., Pittsburgh.

Truflex—V Belts. Gates Rubber Co., Denver, Colo.

Trulflex—Solder. Texas Instruments Inc., Metals and Controls Div., Attleboro Mass.

Truliradiant—Gas Burners. Gold Top Heating, Inc., Butte, Mont.

Trulitrol—Controls. Butte Brass and Controls Co., Butte, Mont.

Trumpf—Nibbling Machines. Cosa Corp., New York, N. Y.

Trunkline—Ducts and Duct Fittings. Norwalk Air Conditioning Corp., South Norwalk, Conn.

Tru-Set—Insulation and Sheet Metal Fastenings. Ramset Fastening System, Winchester-Western Div., Olin Mathieson Chemical Corp., Cleveland, O.

Truspac—Aluminum Strips. Scovill Mfg. Co., Waterbury, Conn.

Trussteel—Damper Clips. U. S. Register Co., Battle Creek, Mich.

Tub-Caulk—Caulking Compounds. Miracle Adhesives Corp., Bellmore, L. I., N. Y.

Tube-O-Flux—Flux. American Products Corp., Chicago, Ill.

Tuff-Bond—Adhesives. Goodloe E. Moore, Inc., Danville, Ill.

Tuf-Flex—Hack Saw Blades. Millers Falls Co., Greenfield, Mass.

Tuff-Weld—Insulation Fastenings. Goodloe E. Moore, Inc., Danville, Ill.

Tuf Quik—Sheet Metal Paint. Wilbur & Williams Co., Norwood, Mass.

Turbine—Ventilators. Penn Ventilator Co., Inc., Philadelphia, Pa.

Turbine Rotary—Ventilators. Western Engineering & Manufacturing Co., Los Angeles, Calif.

Turbo—Air Washers. Bayley Blower Company, Milwaukee, Wis.

Turbo-Base—Ventilators. Uno Ventilator Co., Malden, Mass.

Turbo-Vac—Furnace Vacuum Cleaners. Kent Co., Inc., Rome, N. Y.

Turbovane—Blowers. Westinghouse Electric Corp., Sturtevant Div., Boston, Mass.

Turner—Torches. American Products Corp., Chicago, Ill.

Twin-Aire—Gas Burners. Roberts-Gordon Appliance Co., Buffalo, N. Y.

Twindow—Insulated Glass Window Panels. Pittsburgh Plate Glass Co., Pittsburgh, Pa.

Twin-Fyr—Oil Burner. Breeze Corps., Inc., Newark, N. J.

Twinsulation—Building Insulation. National Gypsum Co., Buffalo, N. Y.

Twist-Rezist—Saw Blades. Independent Blade Co., Div. Westlund Industries, East Haven, Conn.

Two-Tank-T—Fuel Filters. Robert Barclay, Inc., Chicago, Ill.

Tygon—Metal Protecting Paint. United States Stoneware Co., New York, N. Y.

Tyl-Lyke—Steel Roofing and Siding. Continental Steel Corp., Kokomo, Ind.

Tymotherm—Thermostats. Tork Clock Company, Inc., Mount Vernon, N. Y.

U

U.D.D.—Tubing. United Wire & Supply Corp., Providence, R. I.

U-G-L—Furnace Cement. United Gilsonite Laboratories, Scranton, Pa.

UMCO—Furnaces. Union Mfg. Co., Boyertown, Pa.

U.S.—Oil Conversion Burners and Burn-

er Parts. Carlin Co., Wethersfield, Conn.

U.S.-Carlin—Oil Conversion Burners and Burner Parts. Carlin Co., Wethersfield, Conn.

USG—Roof Cement, Roof Decking, Roofing Felt, Built-up Roofing, Louvers, Paint. United States Gypsum Co., Chicago, Ill.

USRC—Registers, Damper Regulators. United States Register Co., Battle Creek, Mich.

USS—Steel Products. National Tube Co., Pittsburgh, Pa.; Tennessee Coal and Iron Div., Fairfield, Ala.; United States Steel Corp., Pittsburgh, Pa.

Ucon—Refrigerants. Union Carbide Chemicals Co., Div. of Union Carbide Corp., New York, N. Y.

Ulok—Air Filters. Union Carbide Plastics Co., Div. of Union Carbide Corp., New York, N. Y.

Ultra-Air—Furnaces. Southern Heater Corp., Compton, Calif.

Ultra-Flow—Furnaces. Southern Heater Corp., Compton, Calif.

Ultralite—Duct and Furnace Insulation. Gustin-Bacon Mfg. Co., Kansas City, Mo.

Ultra-Matic—Insulation Blowing Machines. Universal Insulating Machine Co., Winter Haven, Fla.

Una-Dyn—Dehumidifiers. Universal Dynamics Corp., Arlington, Va.

Unarcoboard—Building and Duct Insulation. Union Asbestos & Rubber Co., Fibrous Products Div., Bloomington, Ill.

Uni-Cast—Electric Motors. Redmond Co., Inc., Subsidiary of Controls Co. of America, Owosso, Mich.

Unichrome—Sheet Metal Paint. Metal & Thermit Corp., Rahway, N. J.

Uniclosed—Motors. U. S. Electrical Motors, Inc., Los Angeles, Calif.

Unicoil—Air Conditioning Units. Clarage Fan Co., Kalamazoo, Mich.

Unicon—Condensers. Kramer Trenton Co., Trenton, N. J.

Uni-Core—Solder. Alpha Metals, Inc., Jersey City, N. J.

Uni-Crest—Insulation. United Cork Cos., Kearney, N. J.

Unifil—Insulation. Robinson Insulation Co., Great Falls, Mont.

Unifilter—Fuel Oil Filters. General Filters, Inc., Novi, Mich.

Uni-fit—Furnace Pipe and Fittings. Armstrong Fittings Co., Des Moines, Iowa.

Uni-Flo—Sound and Volume Control Mixing Units, Grilles, Registers & Air Diffusers. Barber-Colman Co., Rockford, Ill.

Uniflow—Furnaces. Williams Furnace Co., Buena Park, Calif.

Uniloy—Metal Sheets. Universal-Cyclops Steel Corp., Bridgeville, Pa.

Unimatic—Welding Rod. Eutectic Welding Alloys Corp., Flushing, N. Y.

Unimount—Condensate Pumps. March Mfg. Co., Skokie, Ill.

Uninotch—Sheet Metal Working Machines. Punch Products Corp., Buffalo, N. Y.

Union—Incinerators. Syral Mfg. Co., Syracuse, N. Y.

Unipunch—Press Brake Dies, Press Punch Dies, Bench Punches. Punch Products Corp., Buffalo, N. Y.

Uni-Resonator—Sound Absorbers, Sound and Volume Control Mixing Units for Double Duct High Velocity Air Conditioning Systems. Elof Hansson, Inc., Acoustical Div., New York, N. Y.

Uniseal—Electric Motors. Franklin Electric Co., Inc., Bluffton, Ind.

Unishear—Portable Electric Shears. Stanley Electric Tools Div. of The Stanley Works, New Britain, Conn.

Uni-Silencer—Sound Absorbers, Sound and Volume Control Mixing Units for Double Duct High Velocity Air Conditioning Systems. Elof Hansson, Inc., Acoustical Div., New York, N. Y.

Unisorb—Bases and Pads. Felters Co., Boston, Mass.

Unitaire—Air Conditioning Units. Westinghouse Electric Corp., Air Conditioning Div., Staunton, Va.

Unitaire—Gas Furnaces. Hammel Radiator Eng. Co., Los Angeles, Calif.

Unitherm—Air Conditioning Units. Clarage Fan Co., Kalamazoo, Mich.

Unitrane—Air Conditioning Units. The Trane Co., LaCrosse, Wis.

Unitrol—Controls, Safety Pilot Gas Valves. Robertshaw-Fulton Controls Co., Richmond, Va.

Unitrol—Gas Valves, Water Heater Thermostats. Graydon Controls Div., Robertshaw-Fulton Controls Co., Long Beach, Calif.

Universal—Angle Benders. Hossfeld Mfg. Co., Winona, Minn.

Universal—Waterproofing. Philip Carey Mfg. Co., Lockland, Cincinnati, O.

Universal—Evaporative Cooler Recirculating Pumps. Wright-Temp Mfg. Co., Phoenix, Ariz.

Univers-L-Mount—Condensate Pumps. March Mfg. Co., Skokie, Ill.

UnXld—Duct Damper Regulators. Duro-Dyne Corp., Farmingdale, N. Y.

usAirco—Air Conditioning Units, Blowers and Blower-Filter Units, Coils, Grilles, and Blower Wheels. U.S. Air Conditioning Corp., Delaware, O.

U-Set—Snips and Shears. W. H. Compton Shear Co., Newark, N. J.

Utilaire—Furnaces. Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.

Util-i-Torch—Soldering Torches. Turner Corp., Sycamore, Ill.

Utility—Fan Ventilator. Arex Co., Chicago, Ill.

U-Trim-It—Filters. Owens-Corning Fiberglass Corp., New York, N. Y.

U Tube—Water Heaters. Handley Brown Co., Jackson, Mich.

V

VP-Ex—Roof Ventilators. New York Blower Co., Chicago, Ill.

V & S Drive—Variable Speed Transmissions. Reliance Electric & Engineering Co., Cleveland, O.

V & S Jr.—Variable Speed Transmissions. Reliance Electric & Engineering Co., Cleveland, O.

Vacu-Flo—Steel Tubing. H-P Products Inc., Louisville, O.

Valcalox—Damper Regulators. Young Regulator Co., Cleveland, Ohio.

Valdura—Paint. American-Marietta Co., Chicago, Ill.

Valvent—Ventilators. Swartwout Fabricators, Inc., Kokomo, Ind.

Valuaire—Diffusers. Auer Register Co., Cleveland, O.

Vanco—Flashing, Skylights and Ventilators. E. Van Noorden Co., Boston, Mass.

Vanco Domelites—Skylights. E. Van Noorden Co., Boston, Mass.

Van-Cor—Plastic Ducts, Corrosion Resistant Hoods, Sheets, Tubing. Colonial Plastics Mfg. Co., Subsidiary Van Dorn Iron Works Co., Cleveland, O.

Vane Rail—Vane Rail for Ducts. Duro-Dyne Corp., Farmingdale, N. Y.

Vapco—Cleaning Compounds. Garman Co., Inc., St. Louis, Mo.

Vapoglas—Evaporative Humidifiers. Humidifier Plates. Skuttle Mfg. Co., Milford, Mich.

Vapor-Champ—Vapor Barriers. Ludlow Papers, A Division of Ludlow Corp., Needham Heights, Mass.

Vaporene—Rust Preventive Chemicals, Water Conditioning Compound. Metropolitan Refining Co., Inc., Long Island City, N. Y.

Vaporite—Humidifiers. Automatic Humidifier Co. Div., Standard Mfg. Co., Cedar Falls, Iowa.

Vapor-Oil—Burners and Furnaces. Metro Metal Mfg. Co., Holt, Mich.

Vaporseal—Vapor Barriers. Ludlow Papers, Inc., Needham Heights, Mass.

Vaporstop—Vapor Barriers. American Sisakraft Corp., Attleboro, Mass.

Vapsol—Degreasing Compounds. Lester Laboratories, Inc., Atlanta, Ga.

Varidrive—Motors, Transmissions. U. S. Electrical Motors, Inc., Los Angeles, Calif.

Vaultmaster—Air Conditioning Units. Walter Haertel Co., Minneapolis, Minn.

Veco—CO₂ Analyzers. Victory Engineering Corp., Union, N. J.

Vecto-Ray—Electric Heaters. Swan Mfg. Co., Vancouver, Wash.

Veeco—Refrigerant Leak Detectors. Vacuum-Electronics Corp., Plainview, L. I., N. Y.

Veelos—V-Belts. Manheim Mfg. & Belting Co., Manheim, Pa.

Velometer—Air Velocity Meters. Illinois Testing Laboratories, Inc., Chicago, Ill.

Ventalarm Gauge—Fuel Tank Signal Gauge. Scully Signal Co., Melrose, Mass.

Ventalarm Signal—Fuel Oil Tank Gages. Scully Signal Co., Melrose, Mass.

Ventbestos—Flexible Duct Connections. Ventfabrics, Inc., Chicago, Ill.

Ventco—Fan Blades. Phil Rich Fan Mfg. Co., Houston, Tex.

Ventdome—Roof Ventilators. Wasco Products, Inc., Cambridge, Mass.

Ventfab—Flexible Duct Connections. Ventfabrics, Inc., Chicago, Ill.

Ventglas—Flexible Duct Connections. Ventfabrics, Inc., Chicago, Ill.

Vent-Grab—Vent Hanger. Lane Sheet Metal, Minot, N. D.

Ventiduct—Adjustable Joints for Ducts. Aeroquip Corp., Los Angeles, Calif.

Ventlok—Damper Hardware, Duct Damper Regulators, Access Doors and Duct Fitting Hardware. Ventfabrics, Inc., Chicago, Ill.

Vent-O-Lite—Skylights. Vent-O-Lite Co., Chicago, Ill.

Ventura—Fans, Ventilators. American-Standard Industrial Div., Detroit, Mich.

Venturette—Roof Ventilators. Uno Ventilator Co., Malden, Mass.

Venturi-Flo—Air Diffusers. Barber-Colman Co., Rockford, Ill.

Venturi-Top—Roof Ventilators, Chimney Caps and Tops, Vent Caps. Walker Mfg. & Sales Corp., St. Joseph, Mo.

Ventvinyl—Flexible Duct Connections. Ventfabrics, Inc., Chicago, Ill.

Vent-X-It—Roof Ventilators. Octagon Ventilator Mfg. Co., Jackson, Tenn.

Vermiculite—Insulation. International Vermiculite Co., Girard, Ill.

Vernois—Furnace Repair Parts. Mt. Vernon Furnace and Mfg. Co., Mt. Vernon, Ill.

Vernon—Furnaces. Burnham Corp., Warm Air & Cooling Div., Belle Vernon, Pa.

VersaCap—Chimney Caps and Tops. Leslie Welding Co., Inc., Franklin Park, Ill.

Versat-all—Furnaces. Peerless Corp., Indianapolis, Ind. and Round Oak Div., Peerless Corp., Dowagiac, Mich.

Versatube—Capillary Tubing for Refrigerants. Wolverine Tube Co., Div. of Calumet & Hecla, Inc., Allen Park, Mich.

Vertex—Caulking Compounds, Waterproofing, Paint. J. C. Whitlam Mfg. Co., Wadsworth, O.

Vibra-Cork—Vibration Isolating Bases. Korfund Co., Inc., Westbury, L. I., N. Y.

Vibraglass—Vibration Isolating Bases. Johns-Manville, New York, N. Y.

Vibra Grate—Stokers. American Engineering Co., Div. of United Industrial Corp., Philadelphia, Pa.

Vibra-Mount—Vibration Isolating Bases. American Felt Co., Glenville, Conn.

Vibra-stop—Flexible Duct Connections. Grant Wilson, Inc., Chicago, Ill.

Vibrex—Vibration Isolating Equipment. General Tire & Rubber Co., Industrial Products Div., Wabash, Ind.

Vibro-Hangers—Vibration Isolators. Korfund Co., Westbury, L. I., N. Y.

Vibro-Isolator—Vibration Isolating Bases. Korfund Co., Inc., Westbury, L. I., N. Y.

Victor—Blower-Filter Units, Furnaces, Oil Burners, Stokers. Hall-Neal Furnace Co., Indianapolis, Ind.

Victor—Water Heaters. Cleveland Heater Co., Cleveland, O.

Victorair—Cooling Coils, Condensing Units, Electronic Air Cleaners, Air Conditioning Units. Hall-Neal Furnace Co., Indianapolis, Ind.

Victorgas—Gas Furnaces. Hall-Neal Furnace Co., Indianapolis, Ind.

Victoroil—Oil Furnaces. Hall-Neal Furnace Co., Indianapolis, Ind.

Victory—Registers. Register & Grille Mfg. Co., Inc., Brooklyn, N. Y.

Vikimatic—Furnaces, Water Heaters. Viking Manufacturing Corp., Cleveland, Ohio.

Viking—Arc Welders. Mid-States Welder Mfg. Co., Chicago, Ill.

Vincul—Rust Remover. Protective Coatings, Inc., Detroit, Mich.

Visaflame—Oil Burner Control. Mercoid Corp., Chicago, Ill.

Vise-Grip—Clamps. Petersen Mfg. Co., Inc., DeWitt, Nebr.

Visoleak—Refrigerant Leak Detectors. Allin Mfg. Co., Chicago, Ill.

Vitricel—Furnace Cement. Philip Carey Mfg. Co., Cincinnati, Ohio.

Vit-Rock—Water Heaters. Coleman Co., Inc., Wichita, Kans.

Vitro Flame—Oil Burners. Kresno-Stamm Mfg. Co., Palisades Pk., N. J.

Vitroliner—Prefabricated Chimneys, Chimney Housings, Chimney Linings, Vent and Flue Pipe and Fittings. Condensation Engineering Corp., Chicago, Ill.

Volocitrol—Air Control Vanes. Barber-Colman Co., Rockford, Ill.

Volunteer—Gas Water Heaters. M. M. Hedges Mfg. Co., Inc., Chattanooga, Tenn.

Vornado—Fans. O. A. Sutton Corp., Wichita, Kans.

Vortex—Oil Burners. Iron Fireman Mfg. Co., Cleveland, Ohio.

V-Sol—Degreasing Compounds. Speco, Inc., Cleveland, O.

Vulcalock—Bonding Adhesives. B. F. Goodrich Industrial Products Co., Akron, O.

Vulcan—Stokers. Canton Stoker Corp., Canton, Ohio.
 Vulcatex—Caulking and Glazing Compounds. A. C. Horn Co., Inc., North Bergen, N. J.
 Vulco—V-Belts and Pulleys. Gates Rubber Co., Denver, Colo.
 Vulcomount—Pulleys. Gates Rubber Co., Denver, Colo.

W

W—Sheets. Wheeling Corrugating Co., Wheeling, W. Va.
 WAW—Tools. W. A. Whitney Mfg. Co., Rockford, Ill.
 WR—Controls. White-Rodgers Co., St. Louis, Mo.
 Warmahl—Furnaces. Major Metal Products, Inc., Los Angeles, Calif.
 Warm Morning—Incinerators. Locke Stove Co., Kansas City, Mo.
 Water-Air—Gas Water Heaters. Handley-Brown Co., Jackson, Mich.
 Waterbase—Furnaces. Farris Furnace Co., Springfield, Ill.
 Water-Boy—Humidifier Valves. Maid-O'-Mist, Inc., Chicago, Ill.
 Waterbury—Furnaces. Waterman-Waterbury Co., Minneapolis, Minn.
 Waterloo Airfoil—Grilles, Louvers, Registers. Titus Manufacturing Corporation, Waterloo, Iowa.
 Water-RAY-trola—Oil-fired Water Heater. Ray Oil Burner Co., San Francisco, Calif.
 Waterseal—Cement. Thompson & Co., Oakmont, Pa.
 Waterspar—Enamels and Lacquers. Pittsburgh Plate Glass Co., Pittsburgh, Pa.
 Waterender—Humidifier Valves. Skuttle Mfg. Co., Milford, Mich.
 Weather-Beater—Direct Fired Heaters. Wood Enterprises, Inc., Dayton, O.
 Weathercaster—Controls. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
 Weather-Chrome—Time Switches. Automatic Devices Div. of American Machine & Metals, Inc., Sellersville, Pa.
 Weather-Flo—Controls. Automatic Devices Div. of American Machine & Metals, Inc., Sellersville, Pa.
 Weatherlok—Fans. Ventrola Mfg. Co., Owosso, Mich.
 Weathermaker—Air Conditioning Units. Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Weathermatic—Air Conditioning Units. The Williamson Co., Cincinnati, O.
 Weathertrol—Air Conditioning Units. Condensing Units. Therm-Air Mfg. Co., Peekskill, N. Y.
 Weathertron—Air Conditioning Units. General Electric Co., Air Conditioning Dept., Tyler, Tex.
 Weatherwise—Unitary Air Conditioners. Aug. G. Barkow Mfg. Co., Inc. Milwaukee, Wis.
 Weath-R-Seal Washers—Sheet Metal Fastenings. Fabricated Products Co., West Newton, Pa.
 Wedge-Lok—Duct Damper Regulators. Duro-Dyne Corp., Farmingdale, N. Y.
 Weighdifter—Tailgate for Trucks. H. S. Watson Co., Emeryville, Calif.
 Weir—Furnaces, Stokers. Meyer Furnace Co., Peoria, Ill.
 Weircoloy—Copper Bearing Galvanized sheets. Weirton Steel Co., Weirton, W. Va.
 Weircote—Lead Sheets. Weirton Steel Co., Weirton, W. Va.
 Weirite—Sheets, Tin Plate. Weirton Steel Co., Weirton, W. Va.
 Weirzin—Electrolitic Zinc Coated Sheets. Weirton Steel Co., Weirton, W. Va.

Weisco—Skylight Lifts. H. Weiss & Co., New York, N. Y.
 Wej-It—Expansion Bolts. Kirel, Inc., Kingston, N. Y.
 Weldanpower—Arc Welders. Lincoln Electric Co., Cleveland, O.
 Weldmaster—Brazing Torches. Modern Engineering Co., St. Louis, Mo.
 Weldpower—Welders. Raytheon Co., Commercial Apparatus & Systems Div., Norwood, Mass.
 Western—Blowers, Direct Fired Heaters, Furnaces. Tuck-Aire Furnace Co., San Francisco, Calif.
 Westernaire—Roof Ventilators, Fans. Western Engineering & Mfg. Co., Venice, Calif.
 Western Airout—Roof Ventilators. Western Engineering & Mfg. Co., Venice, Calif.
 Western Ridge—Roof Ventilators. Western Engineering & Mfg. Co., Venice, Calif.
 Western Rotary—Roof Ventilators. Western Engineering & Mfg. Co., Venice, Calif.
 Western Transaire—Roof Ventilators. Western Engineering & Mfg. Co., Venice, Calif.
 Westwood—Furnaces. Williams Furnace Co., Buena Park, Calif.
 Wetoil—Soldering Flux. Farrelloy Co., Inc., Philadelphia, Pa.
 Wevelite—Insulation. Insulite Div., Minnesota and Ontario Paper Co., Minneapolis, Minn.
 Whip Clamp—Clamping Device. Whipple Sheet Metal Works, Inc., Lansing, Mich.
 Whirlcone—Spray Nozzles. Water Cooling Equipment Corp., St. Louis, Mo.
 Whirljet—Water Nozzles. Spraying Systems Co., Bellwood, Ill.
 Whisper Quiet—Blower-Filter Units, Burners, Cabinets and Casings, Electronic Air Cleaners, Furnaces and Air Conditioning Units. Rybolt Heater Co., Ashland, O.
 Whistler—Fuel Oil Tank Gages. Applied Mechanics Co., Boston, Mass.
 White Top—Roofing Felt. Johns-Manville, New York, N. Y.
 Whitney-Jensen—Sheet Metal Working Machinery and Tools. Whitney Metal Tool Co., Rockford, Ill.
 Wigwam—Chimney Caps and Tops. Boston Machine Works Co., Lynn, Mass.
 Wilshire—Water Heaters, Furnaces. Southern Heater Corp., Compton, Calif.
 Wilson—Arc Welders. Air Reduction Sales Co., New York, N. Y.
 Wilson—Furnace Brushes. Worcester Brush & Scraper Co., Div. Mason Worcester Brush Co., Worcester, Mass.
 Wind Electric—Roof Ventilators. Hirschman-Pohle Co., Inc., LeRoy, N. Y.
 Windmaker—Roof Ventilators, Fans. Phil Rich Fan Mfg. Co., Houston, Tex.
 Windmaster—Fans. Acme Engineering & Mfg. Corp., Muskogee, Okla.
 Windmaster—Fans, Louvers and Shutters. Consolidated General Products, Inc., Houston, Tex.
 Wind-O-Cool—Fans. Belco Industries, Inc., St. Louis, Mo.
 Wind-O-Vent—Ventilator Units. Reed Unit-Fans, Inc., New Orleans, La.
 Wingfoil—Fans. L. J. Wing Mfg. Div., Aero Supply Mfg. Co. Inc., Linden, N. J.
 Winkler—Furnaces, Oil & Gas Burners, Stokers. Stewart-Warner Corp., Heating and Air Conditioning Div., Lebanon, Ind.
 Winter-Chaser—Furnaces, Direct Fired

Heaters. Campbell Heating Co., Des Moines, Iowa.
 Winter King—Furnaces. McPherson Furnace & Supply Co., Portland, Ore.
 Winter Weathermaker—Furnaces. Carrier Air Conditioning Co., Div. of Carrier Corp., Syracuse, N. Y.
 Wise—Furnaces. Sheet Metal Mfg. Co., Youngstown, O.
 Wizard—Furnaces. Agricola Furnace Co., Inc., Gadsden, Ala.
 Wizard—Air Conditioning Units. Western Auto Supply Co., Kansas City, Mo.
 Wolfe—Angle Meter, Center Finders, Circle Meter, Divisor, Protractor. Interstate Sales Co., New York, N. Y.
 Wondaire—Gas Burners, Furnaces. Cox Mfg. Co., Ridgeville, Ind.
 Wonder Bender—Portable hand brake. Elgen Mfg. Corp., Long Island City, N. Y.
 Wonderglas—Water Heaters. American Appliance Mfg. Corp., Santa Monica, Calif.
 Wonderglas—Water Heaters. Buckeye Water Heater Co., Cleveland, O.
 Woolmaster—Blowers. Molloy Machine Corp., Chicago, Ill.
 Workhorse—Electric Motors. Franklin Electric Co., Inc., Bluffton, Ind.
 Wormfeed—Stokers. Canton Stoker Corp., Canton, Ohio.
 Wyco—Flexible Shaft Machines. Wyzenbeek & Staff, Inc., Chicago, Ill.
 Wycoflex—Grinder. Wyzenbeek & Staff, Inc., Chicago, Ill.

X

X.X.—Punches. Duro-Dyne Corp., Farmingdale, N. Y.
 Xcel-Flux—Soldering Flux. American Products Corp., Chicago, Ill.
 Xit—Ventilators. Iona Ventilator Co., Inc., Philadelphia, Pa.
 X-Pan—Expansion Anchors. National Lead Co., New York, N. Y.
 X-Pandoseal—Transparent Waterproofing. X-Pando Corp., Long Island City, N. Y.
 Xyron—Welding Rod. Eutectic Welding Alloys Corp., Rushings, N. Y.

Y

Yager's—Flux and Solder. Alex R. Benson Co. Inc., New Hartford, N. Y.
 Yankee—Damper Clips and Tips. Howes-Woods Company, Cambridge, Mass.
 YarWay—Nozzles. Yarnall-Waring Co., Philadelphia, Pa.
 Yersley—Air Scrubbers for Fume Removal. John Wood Co., Heater & Tank Div., Conshohocken, Pa.
 Yoloy—Plates and Sheets. Youngstown Sheet & Tube Co., Youngstown, Ohio.
 York-Heat—Conversion Burners, Furnaces. York-Shipley, Inc., York, Pa.
 YouBert—Collectors and Blow Pipe Fittings. Young & Bertke Co., Cincinnati, Ohio.

Z

Z Seal—Bearings. Shafer Bearing Div., Chain Belt Co., Downers Grove, Ill.
 Zack-O-Mix—Waterproofing. Toledo Paint and Chemical Co., Toledo, O.
 Zeph-Air—Gas Furnace. XXth Century Heating & Ventilating Co., Akron, Ohio.
 Zephair—Fans. Hunter Div., Robbins & Myers, Inc., Memphis, Tenn.

Zephyr—Humidifiers. Maid-O'-Mist, Inc., Chicago, Ill.
 Zephyr—Saws. DoAll Company, Minneapolis, Minn.
 Zephyrcon—Condensers. Larkin Coils, Inc., Atlanta, Ga.
 Zero—Furnace and Insulating Cement, Refractories. Standard Fuel Engineering Co., Detroit, Mich.
 Zerok—Metal Protective Coatings. Atlas Mineral Products Co., Mertztown, Pa.
 Zinaloy—Gutters, Conductor Pipe and Fittings. Ridge Roll, Roofing, Sheets, Moulding and Trim. Matthiessen & Hegeler Zinc Co., LaSalle, Ill.

Zincoater—Paint. Tropical Paint Co., Cleveland, O.
 Zincgrip—Metal Sheets. Armco Steel Corp., Middletown, Ohio.
 Zincop—Flashings. Associated Metal Products Corp., La Porte, Ind.
 Zip—Portable Spot Welders. Mid-States Welder Mfg. Co., Chicago, Ill.
 Zip Kote—Metal Protective Coating. Klem Chemicals, Inc., Dearborn, Mich.
 Zipp—Degreasing Compounds. Stewart-Hall Chemical Corp., Mt. Vernon, N. Y.
 Zip-Tin—Flux. Tinit Mfg. Co., Inc., Denver, Colo.

Zip-Tite—Flux. Tinit Mfg. Co., Inc., Denver, Colo.
 Zone-A-Trol—Duct Damper Controls, Zone Control System Kits. Econo Products Co., Div. of Viking Instruments, East Haddam, Conn.
 Zone-Pak—Damper Assembly for Furnace Plenum. Ryniker Steel Products, Northern Pacific Industrial Site, Billings, Mont.
 Zonolite—Insulation. Robinson Insulation Co., Great Falls, Mont.
 Zoot—Soot Remover. Lester Laboratories, Inc., Atlanta, Ga.

Section of
American Artisan
**1961 DIRECTORY OF WARM AIR HEATING, RESIDENTIAL
AIR CONDITIONING AND SHEET METAL PRODUCTS**

[Part 4—ALL MANUFACTURERS' ADDRESSES]

A

- A & A Register Co., 8327 Clinton Rd., Cleveland 9, Ohio.
A C Products, Inc., 4512 Mt. Vernon, Houston, Texas.
ACEC Electric Corp., 40 E. 49th St., New York 17, N. Y.
A-J Mfg. Co., 3601 E. 18th St., Kansas City 27, Mo.
A-P Controls Div., Controls Co. of America, 2450 N. 32nd St., Milwaukee 45, Wis.
Abbeon Supply Co., 179-13 Jamaica Ave., Jamaica 32, N. Y.
Accurate Sheet Metal & Mfg. Works, 2336-40 Milwaukee Av., Chicago 47, Ill.
Acer & Whedon, Inc., Commercial St., Medina, N. Y.
Ace-Sycamore, Inc., 447 DeKalb Ave., Sycamore, Ill.
Acet-A-Tips Co., 3069 W. Madison St., Chicago 44, Ill.
Ace Wire Brush Co., 146 Fulton St., Brooklyn, N. Y.
Acme Elec. Corp., 81 Water St., Cuba, N. Y.
Acme Electric Heating Co., 1217 Washington St., Boston 18, Mass.
Acme Electric Welder Co., 2618 Fruitland Ave., Los Angeles 58, Calif.
Acme Engineering & Mfg. Corp., Box 1203, Muskogee, Okla.
Acme Equipment Co., Inc., 126 S. Clinton St., Chicago 6, Ill.
Acme Equipment, Inc., Central Trust Bldg., Altoona, Pa.
Acme-Fisher Div., Broadway Rubber Corp., 529 E. Broadway, Louisville, Ky.
Acme Furnace Fitting Co., 2124 W. 82nd Pl., Chicago 20, Ill.
Acme Heat & Power Inc., 318 Ten Eyck St., Brooklyn 6, N. Y.
Acme Industries, Inc., 600 N. Mechanic St., Jackson, Mich.
Acme Mfg. Co., 7500 State Rd., Philadelphia 36, Pa.
Acme Oil Burner Co., Inc., 210 Third Av. S. W., Cedar Rapids, Iowa.
Acme Roof Jacket Co., 411 Plymouth Ave., Minneapolis, Minn.
Acme Steel Co., 135th St. and Perry Ave., Chicago 27, Ill.
Acro Welder Mfg. Co., 1719 W. St. Paul Ave., Milwaukee 3, Wis.
Adams Co., The, Bridge St., Dubuque, Iowa.
Adams Furnace Corp., 7530 E. Jackson St., Paramount, Calif.
Adams Mfg. Co., 1530 St. Clair Ave., Cleveland 14, O.
Addison Products Co., Addison, Mich.
Addresso Mfg. Co., 9105 W. King St., Franklin Park, Ill.
Adelta Mfg. Co., 21st & Ellsworth Sts., Philadelphia 46, Pa.
Adhesive Tape Corp., 58 Seabring St., Brooklyn 31, N. Y.
Admiral Corp., 3800 W. Cortland St., Chicago 47, Ill.
Adre Co., The, 2402 N. 82nd St., Milwaukee, Wis.
Advance Furnace Co., 2300 E. Douglas, Wichita 7, Kans.
AEMCo Inc., 10 State St., Mankato, Minn.
Aerofin Corp., 101 Greenway Ave., Syracuse 3, N. Y.
Aeroil Products Co., Inc., 69 Wesley St., South Hackensack, N. J.
Aeroquip Corp., Marman Div., 11214 Exposition Blvd., Los Angeles 64, Calif.
Aerotec Industries, Inc., Greenwich, Conn.
Aerovent Fan Co., Inc., Ash and Barton Sts., Piqua, Ohio.
Aget Mfg. Co., 1303 E. Church St., Adrian, Mich.
Agricola Furnace Co., Inc., North 12th St., Gadsden, Ala.
Aimco Products Corp., Inc., Subsidiary of Yuba Consolidated Industries, Inc., 801 W. 21st St., Tulsa, Okla.
Air Conditioning Engineering Co., 44 First St., Cambridge 41, Mass.
Air Conditioning Products Co., 2340 W. Lafayette, Detroit 16, Mich.
Air-Con Filter Corp., 1137 S. Third, Memphis 6, Tenn.
Air Control Products, Inc., 161 Center St., Coopersville, Mich.
Air Controls, Inc., Div. Cleveland Heater Co., 2310 E. Superior Av., Cleveland 14, Ohio.
Air Cooling Engineering Co., Box 744, Evanston, Ill.
Air Devices, Inc., 185 Madison Ave., New York 16, N. Y.
Air Distribution Products Co., 8201 W. 3rd St., Los Angeles 48, Calif.
Aireactor Corp., 271 Madison Ave., New York, N. Y.
Aireflo Furnace Pipe Co., 9987 E. Grand River, Brighton, Mich.
Air-Factors, Inc., 1624 S. Raymond Ave., Monrovia, Calif.
Airfan Engineering Co., 7401 Telegraph Rd., Los Angeles 22.
Air Filter Corp., 4554 W. Woolworth Ave., Milwaukee 18, Wis.
Airflex Corp., 522 N. Hickory St., Champaign, Ill.
Airtel Co. of California, Inc., 13729 E. Rosecrans Ave., Santa Fe Springs, Calif.
Airflow Co., 400 S. Stonestreet Ave., Rockville, Md.
Airtard Mfg. Co., 362 W. Erie St., Chicago 10, Ill.
Airguide Instrument Co., 2210 Wabansia Ave., Chicago 47, Ill.
Airguide Plastics Corp., 20 S. E. 3rd Ave., Miami 32, Fla.
Air-Heat Corp., 4535 W. Washington Blvd., Chicago 24, Ill.
Airjet Ventilator Co., 133 Industrias, San Clemente, Calif.
Airmaster Corp., 1801 W. Belle Plaine Ave., Chicago 13, Ill.
Air-Maze Corp., 25000 Miles Rd., Cleveland 28, O.
Airo Industries, 1712 W. Florence Ave., Los Angeles 47, Calif.
Aiolite Co., Marietta, O.
Air Products, 2718 Gravois Ave., St. Louis 18, Mo.
Air Products, Inc., Allentown, Pa.
Air Reduction Sales Co., 150 E. 42nd St., New York 17, N.Y.
Air & Refrigeration Corp., 439 Madison Ave., New York 22.
Airserco Mfg. Co., 435 Melwood Ave., Pittsburgh 13, Pa.
Airson Co., Inc., 1109 N. 108th St., Milwaukee, Wis.
Air-Speed Tool Co., 1502 W. Slauson Av., Los Angeles 47, Calif.
Airtemp Div., Chrysler Corp., 1600 Webster St., Dayton 1, Ohio.
Airtex Corp., 2900 N. Western Ave., Chicago 18, Ill.
Airtherm Mfg. Co., 706 S. Spring Ave., St. Louis 10, Mo.
Airtron Corp., Div. of The Higgins Metal Products Co., 2000 Broadway, Swanton, O.
Ajax Building Bracket Co., 1551 Rydal-Mount Rd., Cleveland Heights 18, Ohio.
Ajax Furnace Fitting Co., Div., Cincinnati Sheet Metal & Roofing Co., 216 E. Front St., Cincinnati 2, Ohio.
Alabama Metal Lath Co., P. O. Box 992, Birmingham, Ala.
Aladdin Heating Corp., 1111 Aladdin Ave., San Leandro, Calif.
Aladdin Mfg. Co., Odessa, Mo.
Alan Wood Steel Co., P. O. Box 112, Conshohocken, Pa.
Albertson & Co., Inc., Sioux City 2, Iowa.
Albion Div., McGraw-Edison Co., 704 N. Clark St., Albion, Mich.
Alco Valve Co., 865 Kingsland Av., St. Louis 30, Mo.
Aldrich Co., Wyoming, Ill.
Alf-Herman Corp., 4400 Clayton Ave., St. Louis 10, Mo.
Allan Engineering Co., Box 1211, Dallas 1, Texas.
Allcraft Manufacturing Co., Inc., 27 Hayward St., Cambridge 42, Mass.
Allegheny Body Co., Inc., 1633 N. Sixth St., Philadelphia, Pa.
Allegheny Ludlum Steel Corp., 2020 Oliver Bldg., Pittsburgh 22, Pa.
Allen, H. D., 3201 Casitas Ave., Los Angeles 39, Calif.
Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis.
Allen Co., Inc., L. B., 9302 Berenice, (Box 96) Schiller Park, Ill.
Allen Cooler & Ventilator Inc., 704 Woodward, Rochester, Mich.
Allen Industries, Alva, 1001-1015 N. 3rd St., Clinton, Mo.
Allen Mfg. Co., Inc., Nashville 1, Tenn.
Alliance Mfg. Co., Lake Park Blvd., Alliance, O.
Allied Decals, Inc., 8469 Hough Ave., Cleveland, O.
Allied Federal Industries, 14 Mitchell Pl., Newark, N. J.
Allied Precision Industries, Inc., 414 Stevens St., Geneva, Ill.
Allied School of Mechanical Trades, Inc., 1338 S. Michigan, Chicago, Ill.
Allin Mfg. Co., 410 N. Hermitage, Chicago, Ill.
Allis-Chalmers Mfg. Co., P. O. Box 512, Milwaukee 1, Wis.
Allis Co., Louis, 427 Stewart St., Milwaukee 7, Wis.

Allmetal Screw Products Co., Inc., 821 Stewart Ave., Garden City, N. Y.
 Allmetal Weatherstrip Co., 1911 Ridge Ave., Evanston, Ill.
 Alloy Propeller Co., Zelienople, Pa.
 All-State Welding Alloys Co., Inc., 249-55 Ferris Ave., White Plains, N. Y.
 Alpha Metals, Inc., 56 Water St., Jersey City, N. J.
 Alphil Spot Welder Mfg. Corp., 1058 Pacific St., Brooklyn 1, N. Y.
 Alsynite Div. of Reichhold Chemicals, Inc., 4654 De Soto St., San Diego 9, Calif.
 Alter Co., Inc., Harry, 1717 S. Wabash Ave., Chicago 16, Ill.
 Alton Mfg. Co., 1112 Ross Av., Dallas 2, Texas.
 Alumatic Corp. of America, 2081 S. 56th St., Milwaukee 19, Wis.
 Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa.
 Amana Refrigeration, Inc., Amana, Ia.
 Amchem Products, Inc., Ambler, Pa.
 American Actuator Corp., P. O. Box 384, Stamford, Conn.
 American Agile Corp., P. O. Box 168, Bedford, Ohio
 American Air Filter Co., Inc., 355 Central Av., Louisville, Ky.
 American Appliance Mfg. Corp., 2425 Michigan Ave., Santa Monica, Calif.
 American Cleaning Equipment Corp., 5024 Rose St., Schiller Park, Ill.
 American Comfort Mfg. Co., 2401 Main St., Evanston, Ill.
 American Control Co., 133 E. Palmer Ave., Compton, Calif.
 American Coolair Corp., 3604 Mayflower St., P. O. Box 2300, Jacksonville 3, Fla.
 American Cooling Tower Co., 2710 McGee St., Kansas City, Mo.
 American Diffuser Co., 969 E. 140 St., Cleveland 10, O.
 American District Telegraph Co., 155 Sixth Ave., New York, N. Y.
 American Electrical Heater Co., 6110 Cass Ave., Detroit 2, Mich.
 American Engineering Co., Div. of United Industrial Corp., Wheatstheaf Lane & Sepviva St., Philadelphia 37, Pa.
 American Felt Co., 42 Glenville Rd., Glenville, Conn.
 American Flange & Mfg. Co., Inc., 30 Rockefeller Plaza, New York 20, N. Y.
 American Foundry & Furnace Co., 10th & Washington Sts., Bloomington, Ill.
 American Furnace Co., 1300 Hampton Av., St. Louis 10, Mo.
 American Gage & Mfg. Co., 125 Bayard St., Dayton 1, O.
 American Gas & Chemicals, Inc., Leak-Tec Div., 120 East End Ave., New York 28, N. Y.
 American Gas Co., 969 E. 140th St., Cleveland, O.
 American Hair & Felt Co., Room 322, Merchandise Mart, Chicago 54, Ill.
 American Hard Rubber Co., Ace Road, Butler, N. J.
 American Insulator Corp., New Freedom, Pa.
 American Lincoln Corp., 518 S. St. Clair, Toledo, O.
 American-Marietta Co., 101 E. Ontario St., Chicago 11, Ill.
 American Metal Products, 6100 Bandini Blvd., Los Angeles 22, Calif.
 American Metal Works, Inc., 321 N. Alexander, New Orleans, La.
 American Meter Co., Inc., Reliance Regulator Div., 1000 Meridian Ave., Alhambra, Calif.
 American Mohawk Div., Burner Mfg. Corp. of America, 580 Hudson St., New York 14, N. Y.
 American MonoRail Co., 1111 E. 200 St., Cleveland 17, O.
 American Potash & Chemical Corp., 3030 W. 6th St., Los Angeles 54, Calif.
 American Products Corp., 525 S. Dearborn St., Chicago 5, Ill.
 American Pulley Co., 4200 Wissahickon Av., Philadelphia 29, Pa.
 American Pullmax Co., Inc., 2455 N. Sheffield, Chicago, Ill.
 American Radiator & Standard Sanitary Corp., Plumbing and Heating Div., 40 W. 40th St., New York 18, N. Y.
 American Rock Wool Co., 20 N. Wacker Dr., Chicago 6, Ill.
 American-Saint Gobain Corp., 625 Madison Ave., New York 22, N. Y.
 American Sand-Banum Co., Inc., 1 N. Merrick Ave., Merrick, N. Y.
 American Saw & Mfg. Co., Inc., 67 Boylston St., Springfield, Mass.
 American Screw Co., Willimantic, Conn.
 American Silver Co., Inc., 36-07 Prince St., Flushing, N. Y.
 American Sisalkraft Corp., Attleboro, Mass.
 American Smelting and Refining Co., Federated Metals Div., 120 Broadway, New York 5, N. Y.
 American Solder & Flux Co., 19th & Willard Sts., Philadelphia 40, Pa.
 American-Standard Air Conditioning Div., 40 W. 40th St., New York 18, N. Y.
 American-Standard Industrial Div., Detroit 32, Mich.
 American Steel & Wire Div., U. S. Steel Corp., Rockefeller Bldg., Cleveland, Ohio.
 American Tape Co., 4058 Beaufait, Detroit 7, Mich.
 American Viscose Corp., 350 Fifth Ave., New York, N. Y.
 American Warming & Ventilating Co., 1017 Summit St., Toledo 4, Ohio.

American Welding & Mfg. Co., Building Products Div., Warren, O.
 Amerock Corp., 4000 Auburn, Rockford, Ill.
 Ammerman Co., Inc., S. Greeley St., Stillwater, Minn.
 Ammo Products, Inc., 909 Franklin St., N.E., Washington, D. C.
 Ampere Industries, 60 Boston St., Newark 3, N. J.
 Ampion Corp., 4-88 Forty-Seventh Av., Long Island City 1, N. Y.
 Ampower Products Co., 10207 S. Ridgeland, Box 464, Oak Lawn, Ill.
 Anaconda Aluminum Co., The, P. O. Box 1654, Louisville 1, Ky.
 Anaconda American Brass Co., 414 Meadow St., Waterbury 20, Conn.
 Anaconda Metal Hose Div., American Brass Co., P. O. Box 791, Waterbury 20, Conn.
 Anchor Div. Stratton & Terstegge Co., Inc., P. O. Box 311, New Albany, Ind.
 Anchor Metal Co., Inc., 966 Meeker Ave., Brooklyn 22, N.Y.
 Anderson Metals Corp., 919 E. 22nd St., Kansas City, Mo.
 Anderson-Snow Corp., 3863 N. Milwaukee Ave., Chicago 41, Ill.
 Anemostat Corp. of America, 10 E. 39th St., New York 16, N. Y.
 Annis Air Filter Div., Royal Heaters, Inc., 1024 Westminster Ave., Alhambra, Calif.
 Anodyne, Inc., Div. North Shore Nameplate, 1270 N. W. 165th St., North Miami Beach 69, Fla.
 Ansul Chemical Co., Refrigeration Div., Marinette, Wis.
 Anthony Co., Streator, Ill.
 Anti-Corrosive Metal Products Co., Inc., Castleton-on-Hudson, N. Y.
 Anton Co., 15 Bridge St., New York 4, N. Y.
 Appleton Supply Co., Inc., P. O. Box 319, Appleton, Wis.
 Appliances Engineering, 2052 N. Western, Chicago, Ill.
 Applied Mechanics Co., 381 Congress St., Boston 10, Mass.
 Aquatrol Laboratories, Inc., Clifton, N. J.
 Architectural Plastics Inc., Richmondville Ave., Westport, Conn.
 Arco Co., The, 7301 Bessemer Ave., Cleveland 27, O.
 Arco Mfg. Corp., 542 W. 55th St., New York 19, N. Y.
 Arcos Corp., 1500 S. 30th St., Philadelphia 43, Pa.
 Arden Airoflo Engineering, Inc., 2207 N. Chico Ave., El Monte, Calif.
 Ardmore Products, Inc., Aldene & First Ave., Roselle, N. J.
 Arex Co., 612 N. Michigan Ave., Chicago 11, Ill.
 Argo Industries, Inc., 524 Wethersfield Ave., Hartford, Conn.
 Argo Plastic Products, 1400 W. Tenth St., Cleveland 13, O.
 Arizona Maintenance Co., 1920 Miracle Mile, Tucson, Ariz.
 Arkla Air Conditioning Corp., Shannon Bldg., Little Rock, Ark.
 Arklon Products Co., P. O. Box 3501, Cleveland 18, O.
 Arkos Mfg. Co., 7310 Woodward Ave., Detroit 2, Mich.
 Armco Steel Corp., 703 Curtis St., Middletown, Ohio.
 Armor Electric Mfg. Co., 1020 Holland St., Erie, Pa.
 Armour Alliance Industries, 16123 Armour St., N. E., Alliance, O.
 Armstrong Cork Co., 4404 Concord St., Lancaster, Pa.
 Armstrong Fittings Co., P. O. Box 1356, Des Moines, Iowa.
 Armstrong Furnace Co., Div. of National Union Electric Corp., 851 W. Third Ave., Columbus 12, O.
 Arno Adhesive Tapes, Inc., 4110 Ohio St., Michigan City, Ind.
 Arro Expansion Bolt Co., N. Boone Ave., Marion, O.
 Arrow Foundry Co., East Album St., Freeport, Ill.
 Arrow-Hart & Hegeman Electric Co., 103 Hawthorn St., Hartford 6, Conn.
 Art Valve Co., 4662 N. Lincoln Ave., Chicago 25, Ill.
 Arvin Industries, Inc., 13th & Big Four, Columbus, Ind.
 Ashburn Supply Co., 8648 Warner Dr., Culver City, Calif.
 Ashcraft Co., J. P., 5643 Dyer St., Dallas 6, Tex.
 Associated Metal Products Corp., 517 Brighton St., La Porte Ind.
 Associated Mills Inc., 303 W. Monroe, Chicago, Ill.
 Aston Products, Inc., 22804 Dequindre St., Warren, Mich.
 Ateson Glass Co., 920 Main St., Buffalo 2, N. Y.
 Atchison Specialty Mfg. Co., 1620 Pacific Av., Atchison, Kans.
 Atkins Saw Div., Borg-Warner Corp., Greenville, Miss.
 Atomatic Valve Co., Inc., 545 W. Abbott St., Indianapolis, Ind.
 Atlantic Ultraviolet Co. Inc., 2424 40th Ave., Long Island City 1, N. Y.
 Atlas Mfg. Co., Eustis and Robbins, St. Paul 14, Minn.
 Atlas Mineral Products Co., 101 Norman St., Mertztown, Pa.
 Atlas Valve Co., 282 South St., Newark 3, N. J.
 Auburn Burner Co., Edgerton, O.
 Auburn Foundry, Inc., Heating Div., 617 W. 11th St., Auburn Ind.
 Auburn Spark Plug Co., Inc., Auburn, N. Y.
 Auer Register Co., 6600 Clement Ave., Cleveland 5, Ohio.
 Austin Engineering & Mfg. Co., Inc., 8935 San Jose Rd., Ysleta, Tex.

Austin Mfg. Corp., 305 Perry Brooks Bldg., Austin 1, Tex.
 Auto-Flo Corp., 12085 Dixie St., Detroit 39, Mich.
 Autogas Co., 25th & Congress, Bellwood, Ill.
 Automatic Burner Corp., 1823 Carroll Av., Chicago 12, Ill.
 Automatic Control Co., 995 University Ave., St. Paul 4, Minn.
 Automatic Devices Div. of American Machine & Metals, Inc., Sellersville, Pa.
 Automatic Humidifier Co. Div., Standard Mfg. Co., 220 E. Fourth St., Cedar Falls, Iowa.
 Automatic Solid Fuels Equipment Co., 2608 Madison, Indianapolis 4, Ind.
 Automatic Switch Co., Hanover Rd., Florham Park, N. J.
 Automatic Timing & Controls, Inc., King of Prussia, Pa.

B

B & D Enterprises, Inc., 1041 E. Johnson St., Madison 3, Wis.
 B-G Engineering Co., 5321 Long St., Houston, Texas
 Babbitt Chemical Co. Inc., 36 Prospect St., New Bedford, Mass.
 Babcock & Wilcox Co., Refractories Div., 161 E. 42nd St., New York 17, N. Y.
 Bacharach Industrial Instrument Co., 200 N. Braddock Ave., Pittsburgh 8, Pa.
 Backstop Co., 3162 E. 93rd St., Cleveland 4, O.
 Badger Furnace Pipe Co., 1806 S. Park, Madison, Wis.
 Bahnsen Co., 1001 S. Marshall, Winston-Salem, N. C.
 Bailey Co., Chas. M., 667 Folsom St., San Francisco 7, Calif.
 Bailey Meter Co., 1050 Ivanhoe Rd., Cleveland 10, Ohio.
 Baker Furnace & Cleaner Mfg. Co., 2810 Midwood Av., Toledo 6, Ohio.
 Bal-Air, Inc., 1210 McGavock St., Nashville, Tenn.
 Baldor Electric Co., 4358 Duncan Av., St. Louis 10, Mo.
 Baldwin-Ehret-Hill, Inc., 500 Breunig Ave., Trenton 2, N. J.
 Baldwin-Ward Mfg. Co., Ottawa, Kans.
 Ballastran Div., Telex, Inc., 1701 N. Calhoun St., Ft. Wayne 7, Ind.
 Baltimore Aircoil Co., P. O. Box 7322, Baltimore 27, Md.
 Banner Burner Co., 227-E Indianola Ave., Youngstown 7, Ohio.
 Banner Welder, Inc., 6804 N. 43rd St., Milwaukee 9, Wis.
 Barber-Colman Co., 1706 Rock St., Rockford, Ill.
 Barber Mfg. Co., 1052 E. 134th St., Cleveland 10, O.
 Bar-Brook Mfg. Co., Inc., 6135 Linwood Av., Shreveport, La.
 Barclay, Inc., Robert, 1234 W. Fulton St., Chicago, Ill.
 Bard Mfg. Co., Evansport Road, Bryan, Ohio.
 Barke Products, Inc., 501 Vineland Rd., Bay Village, O.
 Barkow Mfg. Co., Inc., Aug. G., 2230 S. 43rd St., Milwaukee 46, Wis.
 Barksdale Valves, 5125 Alcoa Ave., Los Angeles 58, Calif.
 Barnard Co., Geo. A., 74 Prescott St., Worcester, Mass.
 Barnebey-Cheney Co., Cassady at 8th Ave., Columbus 19, O.
 Barnes Metal Products Co., 4425 W. 16th St., Chicago 23, Ill.
 Barnhardt Mfg. Co., P. O. Box 2176, Charlotte 1, N. C.
 Barreled Sunlight Paint Co., 35 Dudley St., Providence 1, R. I.
 Barrett Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
 Barry Blower Co., 3100 California St., N. E., Minneapolis, Minn.
 Barry Controls Div. of Barrywright Corp., 798 Pleasant St., Watertown, Mass.
 Bartlett Mfg. Co., 3003 E. Grand Blvd., Detroit 2, Mich.
 Basford Co., H. R., 235 — 15th St., San Francisco, Calif.
 Basford Mfg. Co., 235 15th St., San Francisco 3, Calif.
 Baso Inc., P. O. Box 461, Milwaukee 1, Wis.
 Bastian-Blessing Co., 4201 W. Petersen Av., Chicago 46, Ill.
 Bastian-Morley Co., Inc., 208 Truesdell Ave., La Porte, Ind.
 Bateman Foundry & Machine Co., Mineral Wells, Tex.
 Bath Co., Cyril, 32272 Aurora Rd., Solon, O.
 Bayley Blower Co., 1817 S. 66th St., Milwaukee 14, Wis.
 Beach-Russ Co., 420 Lexington Ave., New York 17, N. Y.
 Bead Chain Mfg. Co., 105 Mountain Grove St., Bridgeport 5, Conn.
 Bearlee Products Co., 1255 S. Monroe Ave., Green Bay, Wis.
 Bear Mfg. Co., Industrial Div., 2030 Fifth Av., Rock Island, Ill.
 Beckett Corp., R. W., 38251 Cleveland Rd., (Route U. S. 20), Elvria, Ohio.
 Beckley Perforating Co., 305 North Av., Garwood, N. J.
 Beetle Plastics Corp., Carl N., 192 Airport Rd., Fall River, Mass.
 Belco Industries, Inc., 3830 Olive St., St. Louis 8, Mo.
 Belden Machine Co., 103 Maltby St., New Haven 13, Conn.
 Bell Engineering & Supply Co., Three Rivers, Mich.
 Bell & Gossett Co., 8200 N. Austin Ave., Morton Grove, Ill.
 Bell Machine Specialties, 4813 Tremont Ave., Treviso, Pa.
 Belmetals Mfg. Co., Inc., 1300 Old County Rd., Belmont, Calif.

Belmont Smelting & Refining Works, Inc., 330 Belmont Av., Brooklyn 7, N. Y.
 Belt-Ice Corp., 3400 16th, W., Seattle 99, Wash.
 Bemis Bro. Bag Co., 408 Pine St., St. Louis 2, Mo.
 Benchmaster Mfg. Co., 1835 W. Roscrans, Gardena, Calif.
 Bendix International Div., Bendix Aviation Corp., Export Sales & Service, 205 E. 42nd St., New York 17, N. Y.
 Bendix-Westinghouse Automotive Air Brake Co., 930 E. Virginia St., Evansville, Ind.
 Benjamin Air Rifle Co., 1527 S. 8th St., St. Louis 4, Mo.
 Benner-Nawman, Inc., 3421 Hollis, Oakland, Calif.
 Bennett-Ireland, Inc., 11 Exchange St., Norwich, N. Y.
 Benson Co., Inc., Alex R., Middle Settlement Rd., New Hartford, N. Y.
 Benson Mfg. Co., 18th St. at Agnes Ave., Kansas City 27, Mo.
 Berger Bros. Co., 229-237 Arch St., Philadelphia 6, Pa.
 Berger Div. of Republic Steel Corp., 1038 Bleden Ave., N. E., Canton 3, Ohio.
 Bergman Tool Mfg. Co., Inc., 1573 Niagara, Buffalo, N. Y.
 Berko Electric Mfg. Corp., 182-20 Liberty Ave., Jamaica 12, N. Y.
 Berkroy Products Co., 1171 E. 32nd St., Los Angeles 11, Calif.
 Berns Air King Corp., 3050 N. Rockwell, Chicago 18, Ill.
 Bernz Co., Otto, 740 Driving Park, Rochester 13, N. Y.
 Bertram Co., Harvey P., 2225 Bogen, Cincinnati 22, O.
 Bertsch & Co., Church St., Cambridge City, Ind.
 Besser Furnace and Air Conditioning Corp., 754 Clement Ave., Charlotte, N. C.
 Bethendale Corp., 24040 Lakeland Blvd., Euclid, O.
 Bethlehem Foundry & Machine Co., 225 W. Second St., Bethlehem, Pa.
 Bethlehem Steel Co., 701 E. Third St., Bethlehem, Pa.
 Better Engineered Controls, 1822 S. Burlington Ave., Los Angeles 6, Calif.
 Beverly Shear Mfg. Co., The, 3020 W. 111th St., Chicago 43, Ill.
 Bica Co., 1170 N. State St., Girard, Ohio.
 Biersach & Niedermeyer Co., 1937 N. Hubbard St., Milwaukee 12, Wis.
 Big Joe Mfg. Co., Brown Drive, Wisconsin Dells, Wis.
 Bingham-Harbrand Corp., 1060 Post St., Toledo 6, O.
 Binks Mfg. Co., 3114 Carroll Av., Chicago 12, Ill.
 Birchwood Chemical Co., 4500 W. 44th St., Minneapolis, Minn.
 Bird & Son, Inc., East Walpole, Mass.
 Birks Mfg. Co., 809 Hanover Rd., Meriden, Conn.
 Bishop Co., R. H., 14 E. Washington St., Champaign, Ill.
 Black & Decker Mfg. Co., Pennsylvania Ave., Towson 4, Md.
 Black Mfg. Co. Div., Alexander Milburn, Inc., 403 Penn St., Baltimore 30, Md.
 Blackmer Pump Co., 1809 Century Ave., S. W., Grand Rapids, Mich.
 Black, Sivalls & Bryson, Inc., 7500 E. 12th St., Kansas City 26, Mo.
 Blissfield Mfg. Co., Blissfield, Mich.
 Blue-Ray Gas Burner Co., 1305 E. Vernor Highway, Detroit 7, Mich.
 Blue Ridge Talc Co., Inc., Henry, Va.
 Bock Corp., 110 S. Dickinson St., Madison 3, Wis.
 Bodine Electric Co., 2500 W. Bradley Pl., Chicago 18, Ill.
 Bogene, Inc., 286 Fifth Ave., New York 1, N. Y.
 Bohn Aluminum & Brass Corp., Danville Div., Danville, Ill.
 Boker & Co., Inc., H., 101 Duane St., New York 7, N. Y.
 Bonair Div., Peerless Products Co., 23 St. & Sedgley Ave., Philadelphia 32, Pa.
 Bonnell Co., Inc., William L., 78 Fair St., Newman, Ga.
 Bonney Forge & Tool Works, 2400 Rockhill Rd., Alliance, O.
 Boosey Mfg. Co., Norman, 5281 Avery, Detroit 8, Mich.
 Bostik Adhesive Dept., B B Chemical Co., Subsidiary of United Shoe Machinery Corp., 140 Federal St., Boston, Mass.
 Bostitch, Briggs Drive, East Greenwich, R. I.
 Boston Machine Works Co., 7 Willow St., Lynn, Mass.
 Botfield Refractories Co., Swanson & Clymer Sts., Philadelphia 47, Pa.
 Bovee Furnace Works, 827 Commercial, Waterloo, Iowa.
 Bowen Water Heater Div., Handling Equipment Mfg. Corp., Wixom, Mich.
 Bowlby Air Devices Co., 300 W. Indianapolis, Wichita, Kans.
 Bowles Co., A. M., P. O. Box 7508, Houston 7, Tex.
 Bowman Products Co., 850 E. 72nd St., Cleveland, O.
 Bowman Steel Corp., P. O. Box 2129, Pittsburgh 30, Pa.
 Boyertown Auto Body Works, Inc., Boyertown, Pa.
 Braden Mfg. Co., Inc., 431 N. 14th St., Terre Haute, Ind.
 Brandes Co., 2046 Winnebago, Madison, Wis.
 Brasco Mfg. Co., 152nd & Commercial Av., Harvey, Ill.
 Brass & Copper Tube Div., Triangle Conduit & Cable Co., Inc., New Brunswick, N. J.
 Brauer Supply Co., 2100 Washington Ave., St. Louis 3, Mo.

Breese Burners, Inc., Sales and Appliance Engineering Div., 2450 N. 32nd St., Milwaukee 45, Wis.
 Breidert Co., G. C., P. O. Box 1190, San Fernando, Calif.
 Bremil Mfg. Co., 1020 Holland St., Erie, Pa.
 Bren Weld Corp., 5114 3rd Ave., Brooklyn 20, N. Y.
 Breuer Electric Mfg. Co., 5100 N. Ravenswood Ave., Chicago 40, Ill.
 Bridgeport Brass Co., Hunter Douglas Div., 30 Grand St., Bridgeport, Conn.
 Brisk Metal Products Div., Brisk Waterproofing Co., Inc., 720 Grand Ave., Ridgefield, N. J.
 Bristol Co., P.O. Box 1790, Waterbury 20, Conn.
 Bristol Metal Working Equipment Co., 2 Tolland St., East Hartford, Conn.
 Broan Mfg. Co., Inc., P. O. Box 140, Hartford, Wis.
 Bronson Fan Mfg. Corp., 4560 Worth St., Los Angeles, Calif.
 Brook Motor Corp., 3302-04 W. Peterson Ave., Chicago 45, Ill.
 Brown-Brockmeyer Co., Inc., 1000 S. Smithville Rd., Dayton 1, Ohio.
 Brown Co., 150 Causway St., Boston, Mass.
 Brown, Gene, 316 Seneca Dr., San Antonio, Tex.
 Browning Mfg. Co., Inc., Central Ave., Main & Chester Sts., Maysville, Ky.
 Brown Products Corp., 1090 Springfield Rd., Union, N. J.
 Brulin & Co., Inc., 2939 Columbia Ave., Indianapolis 7, Ind.
 Brumme Mfg. Co., 609 Freeman St., Topeka, Kans.
 Brundage Co., 500 N. Park St., Kalamazoo 11, Mich.
 Brunner Div. of Dunham-Bush Inc., 179 South St., West Hartford, Conn.
 Brush Nail Expansion Bolt Co., Greenwich, Conn.
 Bryant Industrial Products Corp., 17700 Miles Ave., Cleveland 28, O.
 Bryant Mfg. Co., 2020 Montcalm, Indianapolis, Ind.
 Buchanan Electric Products Corp., 226 U.S. 22, Hillside, N. J.
 Buckeye Mfg. Inc., 897 Ingleside, Columbus 8, Ohio.
 Buckeye Water Heater Co., 6901 Quincy Ave., Cleveland 4, Ohio.
 Budlew Products Co., 3535 W. Cortland St., Chicago 47, Ill.
 Buensod-Stacey Corp., 45 W. 18th St., New York 11, N. Y.
 Buffalo Forge Co., 497 Broadway, Buffalo, N. Y.
 Bulldog Div., Gregory Industries, Inc., 102-10 Toledo Ave., Lorain, O.
 Bundy Tubing Co., 8109 E. Jefferson Ave., Detroit 14, Mich.
 Bunker Hill Co., Sales & Fabrication Div., 660 Market St., San Francisco 4, Calif.
 Burgess Thomas Co., 26 Benson St., Bloomfield, N. J.
 Burgess Vibrocrafters, Inc., Grayslake, Ill.
 Burke and Co., 2902 Hyde Park Blvd., Los Angeles 43, Calif.
 Burnett Jr., Inc., J. F., 928 Jefferson Ave., Rochester 11, N. Y.
 Burnham Corp., Irvington, N. Y.
 Burnham Corp., Warm Air & Cooling Div., P.O. Box 148, Belle Vernon, Pa.
 Burn-Rite Products Co., 354 Saw Mill River Rd., Yonkers 2, N. Y.
 Burns Machinery Co., F. W., 1730 W. North Av., Milwaukee 5, Wis.
 Burt Mfg. Co., 38 E. South St., Akron 11, Ohio.
 Butte Brass and Controls Co., P. O. Box 518, Butte, Mont.
 By-Buk Co., 4314 W. Pico Blvd., Los Angeles 19, Calif.
 Byers Co., A. M., Clark Bldg., Pittsburgh 22, Pa.

C

C. & H Air Conditioning Fan Co., Inc., 1603 DeKalb Ave., N. E. Atlanta, Ga.
 C.L.B. Co., 1917 Portsmouth, P. O. Box 6031, Houston 6, Tex.
 CRS Industries Inc., 1405 Locust St., Philadelphia 2, Pa.
 C W R Mfg. Co., P.O. Box 1288, Morro Bay, Calif.
 Cabot, Inc., Samuel, 246 Summer St., Boston, Mass.
 Cain Mfg. Inc., 1111 N. 5th Ave., Birmingham, Ala.
 Calbar Inc., 2626 N. Martha St., Philadelphia 25, Pa.
 Calculator Corp., 28th & Water, Bay City, Mich.
 Calculator Specialties Co., 122 S. Michigan Ave., Chicago 3, Ill.
 Calgon Co., Div. of Hagan Chemicals & Controls, Inc., Hagan Bldg., Pittsburgh 30, Pa.
 Cambridge Filter Corp., 738 E. Erie Blvd., Syracuse 1, N.Y.
 Camloc Fastener Corp., 22 Spring Valley Rd., Paramus, N. J.
 Campbell Co., E. K., 1809 Manchester Ave., Kansas City 26, Mo.
 Campbell Heating Co., 3121 Dean Av., Des Moines 17, Iowa.
 Campbell Mfg. Co., Inc., 9106 Chancellor Row, Dallas 7, Tex.
 Campbell Stainless Products Co., 33 Murtland Ave., Washington, Pa.
 Campco Div., Chicago Molded Products Corp., 2734 N. Normandy Ave., Chicago 35, Ill.

Cam-StaT Inc., Div. Paul Henry Co., 11833 W. Olympic Blvd., Los Angeles 64, Calif.
 Can Arm Corp., P. O. 156, Champlain, N. Y.
 Cannelton Sewer Pipe Co., Fourth & Washington Sts., Cannelton, Ind.
 Canton Stoker Corp., 507 Andrews Pl., S. W., Canton 1, Ohio.
 Capac Mfg. Corp., P. O. Box 186, Capac, Mich.
 Capewell Mfg. Co., 60 Governor St., Hartford, Conn.
 Carajon Chemical Co., Inc., 428 W. Main St., Fremont, Mich.
 Carboline Co., 32 Hanley Ind. Court, St. Louis 17, Mo.
 Carey Electronic Engineering Co., Metal Wool Div., 1880 Clifton Ave., Springfield, O.
 Carey Mfg. Co., Philip, Cincinnati 15, Ohio.
 Carlin Co., The, 912 Silas Deane Highway, Wethersfield 9, Conn.
 Carlson Products, Chamberlin Rd., P.O. Box 133, Aurora, O.
 Carlson Co., Inc., A. B., 349 Woodlawn Ave., Aurora, Ill.
 Carnes Corp., S. Main St., Verona, Wis.
 Carolina Aniline & Extract Co., Inc., P. O. 2386, Charlotte, N. C.
 Carolina Blower Co., Inc., 428-436 Morehead Ave., Greensboro, N. C.
 Carpenter Heating & Air Conditioning Co., 2135 St. Clair Ave., Cleveland 14, Ohio.
 Carpenter Steel Co., Alloy Tube Div., Union, N. J.
 Carr Fastener Co., Div. United-Carr Fastener Corp., 31 Ames St., Cambridge 42, Mass.
 Carrier Air Conditioning Co., Div. of Carrier Corp., Carrier Parkway, Syracuse 1, N. Y.
 Carter Paint Co., Inc., 310 N. Main St., Liberty, Ind.
 Cartier & Sons Co., M. N., 275 Canal St., Providence 3, R. I.
 Cary Mfg. Co., Waupaca, Wis.
 Casavan Industries, Inc., 109 Prince St., Paterson, N. J.
 Cash Co., A. W., P. O. Box 551, Decatur, Ill.
 Casite Industries, Inc., 22630 Harper Ave., St. Clair Shores, Mich.
 Cavalier Corp., Electric Heating Div., 343 W. First St., Chattanooga 2, Tenn.
 Ceilcote, Inc., 4832 Ridge Rd., Cleveland, Ohio.
 Ceilheat, Inc., 5212 Homberg Dr., Knoxville, Tenn.
 Celanese Corp. of America, P. O. Box 1414, Charlotte, N.C.
 Celotex Corp., 120 S. LaSalle St., Chicago 3, Ill.
 Cemenstone Corp., Neville Island, Pittsburgh 23, Pa.
 Central Furnace & Stove Repair Co., 3937 Olive St., St. Louis 8, Mo.
 Central Heating Service, 1118 W. Alta Rd., Peoria, Ill.
 Central Mfg. Co., 1420 N. Rice Ave., Houston, Tex.
 Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill.
 Central States Mfg. Co., Inc., 1200 S. Summit, Arkansas City, Kans.
 Centual Steel & Wire Co., 3000 W. 51st St., Chicago, Ill.
 Central West Machinery Co., 335 S. Western, Chicago, Ill.
 Century Electric Co., 1806 Pine St., St. Louis 3, Mo.
 Century Engineering Corp., 221 4th Ave., S.E., Cedar Rapids, Iowa.
 Century Fan & Ventilator Co., Inc., 259 Main St., Stamford, Conn.
 Cerf Bros. Bag Co., Inc., 2827 S. Brentwood Blvd., St. Louis 17, Mo.
 Certain-teed Products Corp., 120 E. Lancaster Ave., Ardmore, Pa.
 Chain Belt Co., 4618 W. Greenfield Ave., Milwaukee 1, Wis.
 Chalmers Oil Burner Co., 312 Lumber Exchange Bldg., Minneapolis 1 Minn.
 Chamberlin Co. of America, 745 Fifth Ave., New York 22, N. Y.
 Champion Blower & Forge Co., Harrisburg Av., & Charlotte St., Lancaster, Pa.
 Champion Bronze Powder & Paint Co., 2101 N. Elston Ave., Chicago, Ill.
 Champion DeArment Tool Co., Meadville, Pa.
 Champion Furnace Pipe Co., 120 Morton St., P. O. Box 957, Peoria, Ill.
 Char-Gale Mfg. Co., R. 2, Anoka, Minn.
 Chase Brass & Copper Co., Inc., 236 Grand St., Waterbury 20, Conn.
 Chase Mfg. Co., 329 W. Washington, Pasadena, Calif.
 Chase Products, Inc., 20th St. & Gardner Rd., Broadview, Ill.
 Chattanooga Royal Co., First and Delmar Sts., Chattanooga 6, Tenn.
 Cheesman-Elliott Co., Inc., 639 Kent Av., Brooklyn 11, N. Y.
 Chelsea Fan & Blower Co., Inc., 639 South Ave., Plainfield, N. J.
 Chemclean Products Corp., 15-08 121st St., College Point 56, N. Y.
 Chemical Coatings & Engineering Co., Inc., 221 Brooke St., Media, Pa.
 Chemical Sales Div., Firestone Plastics Co., Pottstown, Pa.
 Chemical Solvent Co., 3005 N. 16th St., Birmingham, Ala.

Chemold Co., 2000 Colorado Ave., Santa Monica, Calif.
 Cheney Flashing Co., 623 Prospect St., Trenton 3, N. J.
 Chester Hoist Div., National Screw & Mfg. Co., Lisbon, O.
 Chevrolet Motor Div., General Motors Corp., Detroit 2, Mich.
 Chicago Blower Corp., 9867 Pacific Ave., Franklin Park, Ill.
 Chicago Die Casting Mfg. Co., 2510-14 Monroe St., Chicago 12, Ill.
 Chicago Expansion Bolt Co., 1338 W. Concord Pl., Chicago 22, Ill.
 Chicago Metal Mfg. Co., 3724 S. Rockwell St., Chicago 32, Ill.
 Chicago Perforating Co., 2445 W. 24th Pl., Chicago 8, Ill.
 Chicago Pneumatic Tool Co., 6 E. 44th St., New York 17, N. Y.
 Chicago Rawhide Mfg. Co., 1301 Elston Av., Chicago 22, Ill.
 Chicago Rivet & Machine Co., 950 S. 25th Ave., Bellwood, Ill.
 Chicago Screw Co. Div. Standard Screw Co., 2701 Washington Blvd., Bellwood, Ill.
 Chicago Smelting & Refining Corp., 3701 S. Kedzie Ave., Chicago 32, Ill.
 Chicago Steel Furnace Co., 2350 Lunt Ave., Elk Grove, Ill.
 Chicago Tank Lining Inc., 5247 W. Quincy, Chicago 44, Ill.
 Chicago Tramrail Co., 1330 S. Kostner Ave., Chicago 30, Ill.
 Chicompe Mills, Inc., 47 Worth St., New York 13, N. Y.
 Childers Mfg. Co., P. O. Box 7467, Houston 8, Tex.
 Chimney Sales Corp., 1317 F St., N. W., Washington 4, D. C.
 Chisholm-Moore Hoist Div., Columbus McKinnon Chain Corp., Fremont Av., Tonawanda, N. Y.
 Choldrum Mfg. Corp., 331 East St., New Haven, Conn.
 Cincinnati Elbow Co., 4730 Madison Rd., Cincinnati 27, O.
 Cincinnati Shaper Co., P. O. Box 111, Cincinnati 11, O.
 Cincinnati Stamping & Furnace Co., 28 W. McMicken Ave., Cincinnati 10, Ohio.
 Circle-Air Industries, Inc., 244 Herkimer St., Brooklyn 16, N. Y.
 Circle Equipment Co., 44 S. Senate Ave., Indianapolis, Ind.
 Cirklair Products Div., Folsom Co., Inc., 3104 Oak Lane, Dallas 26, Texas.
 City Chemical Corp., 132 W. 22nd St., New York 11, N. Y.
 Clamage Fan Co., One Clamage Pl., Kalamazoo 16, Mich.
 Claremont Co., Inc., The, Meriden, Conn.
 Clark Bros. Bolt Co., Milldale, Conn.
 Clark Controller Co., 1146 E. 152 St., Cleveland 10, Ohio.
 Clauss Cutlery Co., Fremont, O.
 Clay Equipment Corp., Cedar Falls, Iowa.
 Clayton & Lambert Mfg. Co., Louisville Div., 1707 Dixie Hwy., Louisville 10, Ky.
 Clemson Bros., Inc., Middletown, N. Y.
 Cleveland Crane & Engineering Co., 3866 E. 283rd St., Wickliffe, Ohio.
 Cleveland Heater Co., 2310 Superior Ave., N. E., Cleveland 14, Ohio.
 Cleveland Humidifier Co., 7802 Wade Park Av., Cleveland 3, Ohio.
 Cleveland Punch & Shear Works Co., E. 40th & St. Clair Av., Cleveland 14, Ohio.
 Cleveland Register & Grille Mfg. Co., 3188 E. 80th, Cleveland, O.
 Climate-Master Products Inc., 930 N. W. 13th Ave., Fort Lauderdale, Fla.
 Clinton Metallic Paint Co., Clinton, N. Y.
 Clipper Mfg. Co., 2800 Warwick, Kansas City 8, Mo.
 Cobell Industries, Inc., 600 Wilhite, Cleburne, Tex.
 Cobra Metal Hose Div., DK Mfg. Co., 5059 S. Kedzie, Chicago, Ill.
 Cody Co., F. C., 2045 W. 63rd St., Chicago, Ill.
 Coleman Co., Everett, Mass.
 Coleman Co., Inc., St. Francis & Second St., Wichita 1, Kans.
 Cole-Sewell Engineering Co., 2288 University Av., St. Paul 14, Minn.
 Collins Machinery Corp., 955 Monterey Pass Rd., Monterey Park, Calif.
 Colonial Alloys Co., Ridge Ave., & Crawford, Philadelphia, Pa.
 Colonial Plastics Mfg. Co., Subsidiary Van Dorn Iron Works Co., 2685 E. 79th St., Cleveland, O.
 Colt Ventilation of America, Inc., 4652 Hollywood Blvd., Los Angeles 27, Calif.
 Columbia Bedford Corp., 36 Bridge St., New York, N. Y.
 Columbia Burner Co., 729 Ewing St., Toledo 7, Ohio.
 Columbia Cement Co., Inc., 150 Ingraham St., Brooklyn, N. Y.
 Columbia-Matic "8" Corp., Div. of Columbia Mills, Inc., Syracuse 1, N. Y.
 Columbian Vise & Mfg. Co., 9021 Bessemer Ave., Cleveland 4, O.
 Columbia Specialty Co., Inc., 4925 Bradley Blvd., Chevy Chase 15, Md.
 Columbia Technical Corp., 61-02 31st Ave., Woodside 77, N. Y.
 Columbus Electric Mfg. Co., 2005 E. Main St., Columbus 3, O.
 Columbus Heating & Ventilating Co., 182 N. Yale Av., Columbus 16, Ohio.
 Combustion Control Div., Electronics Corp. of America, 1 Memorial Dr., Cambridge 42, Mass.
 Combustion Equipment Co., 1202 15th St., Moline, Ill.
 Comfort Products Inc., 440 Hillburn Dr., P. O. Box 8368, Dallas 16, Tex.
 Commercialaire Corp. of America, 840 E. 98th St., Brooklyn 36, N. Y.
 Commercial Filters Corp., 2 Main St., Melrose 76, Mass.
 Commercial Machine & Welding Co., R. D. 3, N. Wooster Ave., Dover, O.
 Commercial Plastics Co., 943 George St., Chicago 14, Ill.
 Commercial Shearing & Stamping Co., P. O. Box 239, Youngstown 1, Ohio.
 Commonwealth Brass Corp., 5781-5835 Commonwealth Av., Detroit 8, Mich.
 Commonwealth Co., 2127 W. Commonwealth Av., Alhambra, Calif.
 Compton Shear Co., W. H., 314 Camden St., Newark 3, N. J.
 Constock-Castle Stove Co., 731 S. Front St., Quincy, Ill.
 Cond-Air Div., Elliott Engineering Co., 2800 E. Century Blvd., Lynwood, Calif.
 Condensate Siphon Jet Corp., 779 E. 214th St., New York, N. Y.
 Condensation Engineering Corp., 3511 W. Potomac Ave., Chicago 51, Ill.
 Condenser Service & Engineering Co., Inc., 150 Observer Highway, Hoboken, N. J.
 Congress Drives, Div. Tann Corp., 3750 E. Outer Dr., Detroit 34, Mich.
 Conner Mfg. Co., 828 S. 17th St., Louisville, Ky.
 Connor Engineering Corp., Shelter Rock Lane, Danbury, Conn.
 Consolidated General Products, Inc., 24th and Nicholson Sts., Houston 8, Tex.
 Consolidated Industries, Inc., By-Pass 52, P. O. Box 178, Lafayette, Ind.
 Consolidated Marketing Corp., 1017 Packard Bldg., Philadelphia 2, Pa.
 Construction Fasteners Inc., Spruce & Water, Reading, Pa.
 Construction Specialties, Inc., 55 Winans Ave., Cranford, N. J.
 Consumer Products, Motor Wheel Corp., Lansing 3, Mich.
 Continental Air Filters, Inc., P. O. Box 1647, Louisville 1, Ky.
 Continental Coatings Corp., 17706 Miles Ave., Cleveland 28, O.
 Continental Drill Corp., 555 W. Adams St., Chicago 6, Ill.
 Continental Electric Equipment Co., Box 1055, 205 W. 4th St., Cincinnati 1, O.
 Continental Instrument Co., 1530 St. Clair Ave., Cleveland 14, Ohio.
 Continental Products Co., 1150 E. 222nd St., Euclid 17, Ohio.
 Continental Radiant Glass Heating Corp., Four W. 40th St., New York 16, N. Y.
 Continental Screw Co., 459 Mt. Pleasant St., New Bedford, Mass.
 Continental Tapes, Cayce, S. C.
 Controlair Mfg. Co., 1932 S. Compton Av., Los Angeles 11, Calif.
 Controls Div. of American-Standard, 5900 Trumbull Ave., Detroit 8, Mich.
 Control Systems Co., 5169 N. Elkhart Ave., Milwaukee, Wis.
 Cook Co., Loren, 640 N. Rocky River Dr., Berea, O.
 Coolenheat, Inc., 459 Amboy Ave., Woodbridge, N. J.
 Cool-Ette, Inc., 7535 W. 8 Mile Rd., Detroit 21, Mich.
 Cooper Stoker Co., 55 Caledonia St., Pittsfield, Mass.
 Coopers Creek Chemical Corp., West Conshohocken, Pa.
 Copeland Refrigeration Corp., Sidney, Ohio.
 Copperweld Steel Co., Wire and Cable Div., Glassport, Pa.
 Coppus Engineering Corp., 344 Park Ave., Worcester 10, Mass.
 Corbin Div., P & F, American Hardware Corp., 102 Washington St., New Britain, Conn.
 Corbman Bros., Inc., 25th & York St., Philadelphia, Pa.
 Cordo Chemical Corp., 34 Smith St., Norwalk, Conn.
 Corite-Reynolds Corp., 455 Jarvis Ave., Des Plaines, Ill.
 Corroaire Heater Corp., 1422 Euclid Ave., Cleveland 13, O.
 Corrosite Corp., 64 S. 6 St., Brooklyn 11, N. Y.
 Cosa Corp., 405 Lexington Ave., New York 17, N. Y.
 Coughlan Co., G. N., West Orange, N. J.
 Cox Mfg. Co., Ridgeville, Ind.
 Cramer Controls Corp., Box 36, Centerbrook, Conn.
 Crane Co., Plumbing, Heating, Air Conditioning Group, P. O. Box 780, Johnstown, Pa.
 Creamer Industries, Inc., Maxwell Steel Div., P. O. Drawer 230, Fort Worth 1, Tex.
 Crescent Tool Co., 230 Harrison St., Jamestown, N. Y.
 Cristy Specialty Corp., Worcester, Mass.
 Cromley's, Lewisburg, Pa.
 Croname, Inc., 6201 Howard St., Chicago 48, Ill.
 Cronstroms Mfg. Inc., 4225 Hiawatha Ave., Minneapolis, Minn.
 Cross Perforated Metals, National-Standard Co., 160-178 Dundaff St., Carbondale, Pa.
 Crown Controls Co., Inc., 40 S. Washington St., New Bremen, Ohio.

Crown Engineering Corp., Locust St., Keyport, N. J.
 Crown Home Equipment Co., 1410 N. Delaware Ave., Philadelphia 25, Pa.
 Crucible Steel Co. of America, P. O. Box 88, Pittsburgh 30, Pa.
 Crystalator Corp., 2050 S. Ashland Ave., Sta. A, P. O. Box 1026, Green Bay, Wis.
 Cullen-Friestedt Co., 1303 S. Kilbourn Ave., Chicago 23, Ill.
 Cuno Engineering Corp., 76 S. Vine St., Meriden, Conn.
 Cummins Portable Tools, Div. of John Oster Mfg. Co., 5055 N. Lydell Ave., Milwaukee 17, Wis.
 Curtis Mfg. Co., Refrigeration Div., 1946 Kienlen Av., St. Louis 20, Mo.
 Custom-Aire Products Div., Pacific Industries, Inc., 600 Indiana St., San Francisco, Calif.
 Cutler-Hammer, Inc., 430 N. 12th St., Milwaukee 1, Wis.
 Cuyahoga Products Corp., Subsidiary Republic Industrial Corp., 10252 Berea Road, Cleveland 2, Ohio.

D

DAP Inc., 5300 Huberville Ave., Dayton, O.
 D & R Plastic Welders, Inc., Box J, Hazardville, Conn.
 Dahlstrom Machine Works, 4227 W. Belmont Ave., Chicago 41, Ill.
 Dahlstrom Mfg. Corp., S. E. Cor E. Second & Buffalo Sts., Jamestown, N. Y.
 Dalsin Metal Products, 3506 Bloomington Ave., Minneapolis 7, Minn.
 Dalzen Mfg. Co., 4600 Bree Rd., St. Clair, Mich.
 Damascus Steel Products Corp., 2215 Kishwaukee St., Rockford, Ill.
 Damascus Tube Co., Greenville, Pa.
 Damp-Vent Co., Box 203, Bettendorf, Ia.
 Dana Fan & Blower Corp., 49 Central Ave., Cincinnati 2, O.
 Daniels Mfg. Co., Inc., Sam, Daniels Rd., Hardwick, Vt.
 Danzer Metal Works Co., Box 128, Hagerstown, Md.
 Davidson Enamel Products, Inc., 1100 E. Kibby, Lima, O.
 Davidson Roof Fan Co., 213 California St., Newton 58, Mass.
 Davis Regulator Co., 2546 S. Washtenaw Av., Chicago 8, Ill.
 Davis & Son Machine Works, 1209 E. Nadeau St., Los Angeles 1, Calif.
 Day Co., 810 Third Av., N. E., Minneapolis 13, Minn.
 Day & Night Mfg. Co., 855 Anaheim-Puente Rd., La Puente, Calif.
 Daystrom-Weston Sales Div., Daystrom Inc., 614 Frelinghuysen Ave., Newark 12, N. J.
 Dayton Industrial Products Co., 2001 Janice Ave., Melrose Park, Ill.
 Dayton Rogers Mfg. Co., 2830 13th Av., S. Minneapolis 7, Minn.
 Deansteel Products, 111 Merchants St., San Antonio 5, Tex.
 Dearborn Chemical Co., Merchandise Mart Plaza, Chicago 54, Ill.
 Dearborn Stove Co., 1700 W. Commerce St., Dallas 8, Texas.
 Debevoise Co., 74 20th St., Brooklyn 32, N. Y.
 De Bothezat Fans Div., American Machine and Metals, Inc., East Moline, Ill.
 Deco Mfg. Co., 903 — 22nd St., Rockford, Ill.
 Defender Instrument and Regulator Co., Boody, Ill.
 Delamater Equipment Co., Inc., 903 22nd St., Rockford, Ill.
 Delavan Mfg. Co., Grand Ave. & Fourth St., West Des Moines, Ia.
 Delco Appliance Div., General Motors Corp., P. O. Box 230, Rochester 1, N. Y.
 Delco Products Div., General Motors Corp., 329 E. First St., Dayton, Ohio.
 Delta Co., The, 333 W. 24th Pl., Chicago 16, Ill.
 Delta Power Tool Div., Rockwell Mfg. Co., 400 N. Lexington Ave., Pittsburgh 8, Pa.
 DeLuxe Oil Burner Co., 2121 First Av., Seattle, Wash.
 Demuth & Sons, Inc., Charles, 245 Elm Pl. Mineola, L. I., N. Y.
 Denbo Engineering and Sales Co., Inc., 3301 Martindale Ave., Indianapolis 18, Ind.
 Deniston Co., 4836 S. Western Ave., Chicago 9, Ill.
 Denver Fire Clay Co., 3033 Blake St., Denver 17, Colo.
 Design Engineers, 214 S. Church St., Rockford, Ill.
 Designers Metals, Div. of Southern Electric, Inc., 8701 S. Greenwood Ave., Chicago 19, Ill.
 Desk-Sign Mfg. Co., 223 S. 61st St., Philadelphia 39, Pa.
 Desmond-Stephan Mfg. Co., Box 30, Urbana, O.
 Desomate Products Div., Atlantic Research Corp., 1109 W. Broad St., Falls Church, Va.
 Detroit Blower Corp., 9867 Pacific Ave., Franklin Park, Ill.
 Detroit Hoist & Machine Co., 8202 Morrow St., Detroit 11, Mich.
 Detroit Moulding Div., L. A. Young Spring & Wire Corp., 9210 Russell St., Detroit 11, Mich.

Detroit Safety Furnace Pipe Co., 3960 Second Blvd., Detroit 2, Mich.
 Detroit Stamping Co., 350 Midland Ave., Detroit 3, Mich.
 Detroit Stoker Co., 1510 E. First St., Monroe, Mich.
 Detroit Surtacing Machine Co., 1333 E. Eight Mile Rd., Detroit 20, Mich.
 Deutsch Controls Corp., P. O. Box 61216, Los Angeles 61, Calif.
 DeVilbiss Co., The, Metal Fabricators Div., 5741 Russell St., Detroit 11, Mich.
 Devine Mfg. Co., J. P., Div. of H. K. Porter Co., Inc., 1932 Oliver Bldg., Pittsburgh 22, Pa.
 Dewey Gas Furnace Co., 100 E. Baltimore, Detroit 2, Mich.
 Dialatemp, Inc., 706 Chestnut St., St. Louis, Mo.
 Diamond Castings Co., Inc., Terra Cotta Rd., Johnsonburg, Pa.
 Diamond Machine Tool Corp., 5111 Coffman-Pico Rd., Pico Rivera, Calif.
 Diamond Mfg. Co., P. O. Box 34, Wyoming, Pa.
 Diamond Tool and Horseshoe Co., 4702 Grand, Duluth, Minn.
 Diceler Div., General Machine & Mfg. Co., Berwick, Pa.
 Dickson Co., 7420 Woodlawn Ave., Chicago 19, Ill.
 Dickson Weatherproof Nail Co., P. O. Box 590, Evanston, Ill.
 Dieckmann Co., Ferdinand, 2351 Ferguson Rd., Cincinnati 38, O.
 Diehl Mfg. Co., 1117 Finnerden Av., Somerville, N. J.
 Dielectric Products Co., Inc., 125 Virginia Ave., Jersey City 5, N. J.
 Diesel Power, Inc., P. O. Box 403, Sharon, Pa.
 Disston Div., H. K. Porter Co., Inc., Unruh & Milnor Sts., Philadelphia 33, Pa.
 Division Lead Co., 7742 W. 61st Pl., Summit, Ill.
 Dixie Radiant Electric Heat Corp., 66 Eleventh St., N. E., Atlanta 9, Ga.
 DoALL Co., 254 Laurel Ave., Des Plaines, Ill.
 Dockson Corp., 3839 Wabash Av., Detroit 8, Mich.
 Document House, Chemicals Div., P. O. Box 242, Greenwich, Conn.
 Dodge Div., Chrysler Corp., 21500 Mound Rd., Detroit 31, Mich.
 Dodge Mfg. Corp., 500 S. Union St., Mishawaka, Ind.
 Doelger & Karsten, Inc., 3015 W. Chambers St., Milwaukee 10, Wis.
 Doerr Electric Co., Cedarburg, Wis.
 Dollinger Corp., 11 Centre Park, Rochester 3, N. Y.
 Domestic Mfg. Co., 201 Westlake, N. Seattle 1, Wash.
 Donaldson Power Roof Ventilator Co., 2915 Knox St., Los Angeles 39, Calif.
 Dongan Electric Mfg. Co., 2981 Franklin St., Detroit 7, Mich.
 Donley Bros. Co., 13902 Miles Ave., Cleveland, O.
 Dormeyer Industries, 3418 Milwaukee Ave., Chicago 41, Ill.
 Dornback Furnace & Foundry Co., 33220 Lakeland Blvd., Eastlake, Ohio.
 Dotmar Industries, Inc., 502 Hanselman Bldg., Kalamazoo, Mich.
 dot-N-dasher, P. O. Box 157, N. Miami Beach 62, Fla.
 Dow Chemical Co., Midland, Mich.
 Dow Corning Corp., Midland, Mich.
 Dowagiac Steel Furnace Co., Beeson St., Dowagiac, Mich.
 Downing Steel Products Co., 2305 S. Smithville, Kettering 20, O.
 Downs Crane & Hoist Co., 8827 S. Juniper St., Los Angeles 2, Calif.
 Doyle & Roth Mfg. Co., Foot of 23rd St., Brooklyn 32, N. Y.
 Doyle Vacuum Cleaner Co., 227 Stevens St., S. W., Grand Rapids 4, Mich.
 draftette Corp., P. O. Box 794, Beverly Hills, Calif.
 Draco Co., Morris Field, Charlotte, N. C.
 Dravo Corp., Neville Island, Pittsburgh 25, Pa.
 Drayer-Hanson, Div. of National-U. S. Radiator Corp., Box 2215, Terminal Annex, Los Angeles 54, Calif.
 Dreier Bros., Inc., 7301 Woodlawn Ave., Chicago 19, Ill.
 Dreis & Krump Mfg. Co., 7404 Loomis Blvd., Chicago 36, Ill.
 Drico Industrial Corp., 100-8th St., Passaic, N. J.
 Dryer Dynamics Corp., Page & Schuyler Aves., Lyndhurst, N. J.
 Drying Systems Co., 1812½ W. Foster Ave., Chicago 40, Ill.
 Dry Mfg. Co., Winters, Tex.
 Dryomatic Corp., 715 N. Fayette St., Alexandria, Va.
 Dualtron Co., 322 Perry Hwy., Pittsburgh 29, Pa.
 Ducane Heating Corp., 230 Goffle Road, Hawthorne, N. J.
 Ducon Co., Inc., The, 147 E. 2nd St., Mineola, N. Y.
 Duc-Pac Inc., Baldwin St., East Longmeadow, Mass.
 Dunham-Bush, Inc., 179 South St., West Hartford 10, Conn.
 Dunton Co., M. W., 350 Kinsley Ave., Providence 3, R. I.
 du Pont de Nemours & Co., Inc., E. I., Wilmington 98, Del.
 Dura Last Products Corp., 160 Thalia St., New Orleans 18, La.
 Dura-Vent Corp., Subsidiary of Dover Corp., 2525 El Camino Real, Redwood City, Calif.
 Durez Plastics Div., Hooker Chemical Corp., 1953 Walck Rd., North Tonawanda, N. Y.
 Durkee-Atwood Co., 215 N. E. 7th St., Minneapolis, Minn.

Duro-Dyne Corp., Route 110, Farmingdale, N. Y.
 Duro Metal Products Co., 2649 N. Kildare, Chicago 39, Ill.
 Dustender Co., 3619 Pontiac Rd., Ann Arbor, Mich.
 Dust Suppression & Engineering Co., P. O. Box 67, 120 S. Broadway, Lake Orion, Mich.
 Du Verre, Inc., 374 Delaware Ave., Buffalo, N. Y.
 Dwyer Mfg. Co., F. W., P. O. Box 373, Michigan City, Ind.
 Dyfoam Corp., 202 E. Cherry St., New Castle, Pa.

E

Eagle Chemical Co., Inc., Box 107, Mobile, Ala.
 Eagle-Picher Co., American Bldg., Central Pkwy. & Walnut, Cincinnati 1, Ohio.
 East Coast Co., 43 Parker Rd., Boston 81 (Wellesley), Mass.
 Eastern Industries Inc., 100 Skiff St., Hamden 14, Conn.
 Eastern Oil & Equipment Co., 27 Portland St., Portland 1, Maine
 Eastern Stainless Steel Corp., P. O. Box 1975, Baltimore 3, Md.
 Eastern States Paint & Varnish Co., Swanson & Mifflin Sts., Philadelphia 48, Pa.
 Eastman Chemical Products, Inc., Subsidiary, Eastman Kodak Co., Kingsport, Tenn.
 Easton R. S. Corp., 4907 Farragut Rd., Brooklyn 3, N. Y.
 Eaton Air Filter Co., 2609 E. Larned St., Detroit 7, Mich.
 Ebo Mfg. Co., 265 N. Hamilton Rd., Columbus 13, O.
 Eckhart Mfg. Co., Inc., 931 Lehigh Av., P. O. Box 248, Union, N. J.
 Eclipse Air Brush Co., 390 Park Ave., Newark 7, N. J.
 Eclipse Fuel Engineering Co., 1100 Buchanan St., Rockford, Ill.
 Econo-Matic Products Co., Inc., 8851 Mark Twain, Detroit, Mich.
 Econo Products Co., Div. of Viking Instruments, East Haddam, Conn.
 Eddington Metal Specialty Co., 3088 Bristol Pike, Eddington, Pa.
 Eddy Stoker Corp., 700 North Wolf Rd., P. O. Box 68, Wheeling, Ill.
 Edwards Engineering Corp., 101 Alexander Ave., Pompton Plains, N. J.
 Edwards Mfg. Co., Albert Lea, Minn.
 Efco Products Co., P. O. Box 154, Eastwood Sta., Syracuse 6, N. Y.
 Eisler Engineering Co., 760 S. 13th St., Newark 3, N. J.
 Elco Tool & Screw Corp., 1111 Samuelson Rd., Rockford, Ill.
 Eltrend Products Corp., Subsidiary of St. Joe Machines, Inc., 606 Water St., St. Joseph, Mich.
 Electrical Components Co., Div. of National Ceramic Co., 500 Southard St., Trenton 2, N. J.
 Electric Arc, Inc., 152 Jelliff Av., Newark 8, N. J.
 Electric Boat Div., General Dynamics Corp., Groton, Conn.
 Electric Controller & Mfg. Co., 4528 Lee Rd., Cleveland 28, O.
 Electric Furnace-Man, Inc., 4th & Furnace Sts., Emmaus, Pa.
 Electric Heaters, Inc., P. O. Box 10093, Knoxville, Tenn.
 Electric Heating Products Co., 5800 S. Central Ave., Phoenix, Ariz.
 Electric Machinery Mfg. Co., 800 Central Ave., Minneapolis 13, Minn.
 Electric Motors & Specialties, Inc., King and Hamsher Sts., Garrett, Ind.
 Electrifying Corp., 4913 College Ave., Indianapolis 5, Ind.
 Electro-Air Cleaner Co., Inc., Olivia & Sproul Sts., McKees Rocks, Pa.
 Electro-Chemical Products Corp., 16190 Saranac Rd., Cleveland, O.
 Electro Dynamic Div., General Dynamics Corp., 163 Avenue A, Bayonne, N. J.
 Electrol Burner Mfg. Co., Inc., 22 Union Av., Rutherford, N.J.
 Electromode Div. of Commercial Controls Corp., P. O. Box 1052, Rochester 3, N. Y.
 Electro-Ray Mfg. Co., 8310 N. E. Highway 99, Vancouver, Wash.
 Electrovector, Inc., 475 Flushing Ave., Brooklyn, N. Y.
 Electrovent Fan & Mfg. Co., 812 W. Lake St., Chicago 7, Ill.
 Electro-Watt Inc., 4225 23rd, W., Seattle, Wash.
 Elgen Mfg. Corp., 32-49 Gale Ave., Long Island City 1, N. Y.
 Elgo Shutter & Mfg. Co., 2738 W. Warren Av., Detroit 8, Mich.
 Elliott Co., Crocker-Wheeler Plant, Div. of Carrier Corp., Jeanette, Pa.
 Ellison Draft Gage Co., Inc., 348 W. Monroe St., Chicago 6, Ill.
 Elwell-Parker Elec. Co., 4131 St. Clair, Cleveland 3, Ohio.
 Embassy Steel Products, Inc., 890 Stanley Ave., Brooklyn 8, N. Y.
 Emerson Electric Mfg. Co., 8100 Florissant Av., St. Louis 36, Mo.
 Emerson Radio & Phonograph Corp., 14th & Coles Sts., Jersey City 2, N. J.
 Emglo Products Corp., 116 Dupont St., Johnstown, Pa.
 Empire Chemical Products Co., 10 Longworth St., Newark 2, N. J.

Empire Metal Co., 820 E. Water St., Syracuse, N. Y.
 Empire Stove Co., Belleville, Ill.
 Empire Ventilation Equipment Co., 35-39 Vernon Blvd., Long Island City 6, N. Y.
 Enderle, Inc., Ltd., Frank X, 1715 San Fernando Rd., Los Angeles 65, Calif.
 Engelhard Industries Inc., American Platinum and Silver Div., 231 New Jersey Railroad Ave., Newark, N. J.
 Engelhard Industries Inc., Instrument & Systems Div., 850 Passaic Ave., East Newark, N. J.
 Engel Sheet Metal Equipment, Inc., 8122 Reilly Ave., St. Louis 11, Mo.
 Engesser & Co., William L., 9745 E. Rush St., El Monte, Calif.
 Engineering Industries Co., Ltd., 15 Brandon Ave., Toronto, Ont., Canada.
 Englander Co., Inc., Plastics Div., 227 N. Warwick Ave., Baltimore 23, Md.
 English Engineering Co., 226 Sycamore St., Abilene, Tex.
 Engwald Corp., The, 125 Sheridan Blvd., Inwood, L.I., N.Y.
 Enico Products, 16573 Littlefield Av., Detroit, Mich.
 Enjay Co., 15 W. 51st St., New York, N. Y.
 Erdle Perforating Co., 171 York St., Rochester 11, N. Y.
 Ergolyte Mfg. Co., 3627 N. Lawrence St., Philadelphia 40, Pa.
 Erie Enameling Co., 1400 W. 20th St., Erie, Pa.
 Eriez Mfg. Co., 219 Magnet Dr., Erie, Pa.
 Ervite Corp., 4000 W. Ridge Rd., Erie, Pa.
 Eselgroth & Co., Box 253, Roselle, N. J.
 Essick Mfg. Co., 1950 Santa Fe Av., Los Angeles 21, Calif.
 Esso Standard Div., Humble Oil & Refining Co., 15 W. 51st St., New York, N.Y.
 Estwing Mfg. Co., 2647 - 8th, Rockford, Ill.
 Etched Products Co., 3901 Queens Blvd., Long Island City 4, N. Y.
 Euclid Crane & Hoist Co., 1365 Chardon Rd., Euclid 17, Ohio.
 Eutectic Welding Alloys Corp., 40-40 172nd St., Flushing 58, N. Y.
 Evans Corp., The George, 121 37th St., Moline, Ill.
 Everard Tap & Die Corp., 215 E. 144 St., New York 51, N. Y.
 EverHot Heater Div. of Temprite Products Corp., 5241 Wesson Av., Detroit 10, Mich.
 Everhot Products Co., 2059 W. Carroll Av., Chicago 12, Ill.
 Everwarm, Inc., 3600 Pleasant Ridge Rd., Knoxville, Tenn.
 Evis Mfg. Co., 5955 N. Rockwell, Chicago, Ill.
 Eward Associates, 515 Second Ave., W., Seattle 99, Wash.
 Excelsior Steel Furnace Co., 346 W. Washington Blvd., Chicago 6, Ill.
 Excelsior Tool & Machine Co., 31st & Ridge Av., East St. Louis, Ill.
 Exit-Aire Ventilating Co., 13650 Vaughn St., Pacoima, Calif.
 Expert Welding Machine Co., 17144 Mt. Elliott St., Detroit.

F

F & E Mfg. Co., P.O. Box 727, Fremont, Calif.
 Fabricated Products Co., West Newton, Pa.
 Fafnir Bearing Co., The, 37 Booth St., New Britain, Conn.
 Fairbanks, Morse & Co., 600 S. Michigan Av., Chicago 5, Ill.
 Fairbairn Rule Co., Cold Spring, N. Y.
 Fairmont Aluminum Co., Fairmont, W. Va.
 Fairmount Tool & Forging Inc., Unit of Houdaille Industries, Inc., 10611 Quincy Av., Cleveland 6, Ohio.
 Fairway Division, 12085 Dixie St., Detroit 39, Mich.
 Fallsington Mfg. Co., Fallsington, Pa.
 Falstrom Co., 18 Falstrom Court, Passaic, N. J.
 Falz Mfg. Co., 1930 St. Anthony Ave., St. Paul, Minn.
 Famco Machine Co., 3114 Sheridan Rd., Kenosha, Wis.
 Famous Furnace Co., 6420 Woodland Ave., Cleveland 4, Ohio.
 Fan-Air Co., Dowagiac, Mich.
 Farr Co., P.O. Box 90187, Airport Sta., Los Angeles 45, Calif.
 Farrelloy Co., 1243 N. 26th St., Philadelphia 21, Pa.
 Fasco Industries, Inc. 255 N. Union St., Rochester 2, N. Y.
 Fastening Devices, Inc., 369 - 50th St., Brooklyn, N. Y.
 Fastway Fasteners Inc., 1676 E. 28th St., Lorain, O.
 Fayette Mfg. Co., 200 Main St., Morenci, Mich.
 Fedders Corp., 58-01 Grand Ave., Maspeth 78, N. Y.
 Federal Heating and Cooling Corp., 126 W. Tremont Ave., Charlotte, N. C.
 Federal Machinery Co., 134 Grand St., New York 13, N. Y.
 Felter Co., John, P. O. Box 7464, Houston 8, Tex.
 Felters Co., Inc., 210 South St., Boston 11, Mass.
 Fenestra Inc., 2250 E. Grand Blvd., Detroit 11, Mich.
 Fenwal Inc., Ashland, Mass.
 Fenway Machine Co., Inc., 1910 N. Marshall St., Philadelphia 22, Pa.
 Fern, Ralph, 1007 Fisk St., Scranton 9, Pa.
 Fiberglass Reinforced Products Co., Valley City, Ohio

Fibreboard Paper Products Corp., 475 Brannan St., San Francisco 19, Calif.
 Fidelity Tool Supply, Inc., 309 Vine St., Camden 2, N. J.
 Field Control Div., Conco Engineering Works Inc., Mendota, Ill.
 Fieser Co., F. J., 54 W. 21st St., New York 10, N. Y.
 Filon Plastics Corp., 333 N. Van Ness Ave., Hawthorne, Calif.
 Filt-R-Ite Co., 1408 W. Harrison St., Chicago 7, Ill.
 Fingles Co., Reisterstown Rd. at Elgin Av., Baltimore 17, Md.
 Firestone Industrial Products Co., 1200 Firestone Parkway, Akron 17, Ohio.
 Firestone Plastics Co., Pottstown, Pa.
 Fisher Brass Foundry and Mfg., 5332 S. Santa Fe Ave., Los Angeles 58, Calif.
 Fisher Governor Co., Box 307, Marshalltown, Iowa.
 Fisher Skylight, Inc., 186 15th St., Brooklyn, N.Y.
 Fiske Co., 1237 W. 47th St., Chicago, Ill.
 Flagler Corp., The, 19321 Filer Ave., Detroit, Mich.
 Flamort Chemical Co., 746 Natoma St., San Francisco 3, Calif.
 Flanders Filters, Inc., P. O. Box 718, Riverhead, L. I., N. Y.
 Flashrite, Inc., P. O. Box 573, Cheyenne, Wyo.
 Flemm Lead Co., Inc., Bradley Av. & School St., Long Island City 1, N. Y.
 Flexaust Co., The, 100 Park Ave., New York 17, N. Y.
 Flexible Tubing Corp., Guilford, Conn.
 Flexonics Corp., 1315 S. Third Ave., Maywood, Ill.
 Flintkote Co., 30 Rockefeller Plaza, New York 20, N. Y.
 Flood Co., Hudson, Ohio.
 Floral City Heater Div., United States Air Conditioning Corp., 402 S. Monroe St., Monroe, Mich.
 Floridin Co., Box 989, Tallahassee, Fla.
 Fluor Products Co., Div. of the Fluor Corp., Ltd., Air Conditioning & Refrigeration Cooling Towers, P.O. Box 1267, Santa Rosa, Calif.
 Fluxolder Products Co., 438 E. Woodbridge St., Detroit 26.
 Flynn & Emrich Co., 301 Holliday St., Baltimore 2, Md.
 Foamade Industries, 14851 West 11 Mile Rd., Oak Park 37, Mich.
 Follansbee Steel Corp., Penn and Main Sts., Follansbee, W. Va.
 Folsom Snow Guard Co., Main & Village Sts., Millis, Mass.
 Foote Foundry Co., J. B., N. Main St., Fredericktown, Ohio.
 Ford Div., Ford Motor Co., P. O. Box 658, Dearborn, Mich.
 Forest-Wool Insulation Co., Inc., 215 N. Linden, Marshall, Mich.
 Formica Co., 4620 Spring Grove, Cincinnati, O.
 Forseille Products, Inc., P. O. Box 6755, Baltimore, Md.
 Forston Co., Mfr., 2117-19 Judiciary, Houston 18, Tex.
 Fort Valley Fan Co., Fort Valley, Ga.
 Forty-Eight Insulations, Inc., Thomas & McGee Sts., Aurora, Ill.
 Fossum Damper Control Co., 995 Arcade St., St. Paul, Minn.
 Foxboro Co., 38 Neponset Ave., Foxboro, Mass.
 Fox, Inc., Chris, 19 Bowhill Ave., Trenton 10, N. J.
 Fox Products Co., 4720 N. 18th St., Philadelphia 41, Pa.
 Fram Aire Corp., Div. of Fram Corp., Providence 16, R. I.
 Franer Mfg. & Supply Corp., Wharf St., East Weymouth 89, Mass.
 Franck & Fric, Inc., 7919 Rockside Rd., Cleveland 31, O.
 Franklin Electric Co., Inc., 400 E. Spring St., Bluffton, Ind.
 Franklin Plastics, Inc., 315 Grant St., Franklin, Pa.
 Fraser & Johnston Co., 1900 17th St., San Francisco 3, Calif.
 Frederick Iron & Steel, Inc., Cor. East & Seventh Sts., Frederick, Md.
 Freed Products Co., 1510 Third Ave., Moline, Ill.
 Fresh Air Circulator Co., 3108 Navigation, Houston 3, Texas.
 Frey & Co., Frank P., 2634 W. Madison St., Chicago 12, Ill.
 Frick Co., W. Main St., Waynesboro, Pa.
 Friedrich Refrigerators, Inc., 1117 E. Commerce, San Antonio, Tex.
 Friend-Pike Sheet Metal & Roofing Co., 615 Pearl St., Sioux City, Iowa.
 Friez Instrument Div., Bendix Aviation Corp., 1400 Taylor Av., Baltimore 4, Md.
 Frigidaire Div., General Motors Corp., 300 Taylor St., Dayton 1, Ohio.
 Frigid Coil, Inc., 9800 E. Rush St., El Monte, Calif.
 Frigid, Inc., 128-168 Thirty-Second St., Brooklyn 32, N. Y.
 Front Rank Mfg. Co., Div. Gross Aire Mfg. Co., 9416 W. Milton Ave., St. Louis 14, Mo.
 Fry Reglet Corp., 6550 Avalon Blvd., Los Angeles 3, Calif.
 Fuelguard Co., 5643 Dyer St., Dallas 6, Texas.
 Fuller Co., H. B., 1150 Eustis St., St. Paul 8, Minn.
 Fulton Sylphon Div., Robertshaw-Fulton Controls Co., Box 400 Knoxville 1, Tenn.
 Furblo Co., Hermansville, Mich.
 Furnas Electric Co., 1192 McKee St., Batavia, Ill.
 Fusion Engineering, 17921 Roseland, Cleveland 12, O.

G

G. M. Mfg. Co., 134 W. 26 St., New York 1, N. Y.
 GMC Truck & Coach Div., General Motors Corp., 660 South Boulevard, E., Pontiac, Mich.
 G. & O. Mfg. Co., 138 Winchester Av., New Haven 8, Conn.
 G & S Mfg. Co., 2824 E. Washington, Phoenix, Ariz.
 Gaffers & Sattler, 8111 W. Beverly Blvd., Los Angeles 48, Calif.
 Gallaher Co., 4106 Dodge St., Omaha, Nebr.
 Galvan Mfg. Co., Box 267, New Albany, Ind.
 Galvicon Corp., 20 Meadow St., Brooklyn 6, N. Y.
 Garden City Fan & Blower Co., 801 N. Eighth St., Niles, Mich.
 Gardner-Denver Co., Front St., Quincy, Ill.
 Garland Mfg. Co., 48 Water St., Saco, Maine.
 Garman Co., Inc., 1253 Grover, St. Louis 25, Mo.
 Gary Steel Products Corp., 4400 W. 9th St., Gary, Ind.
 Gas-Cool Div., Vector Engineering Contractors, Inc., 3210 Elm St., Dallas 26, Tex.
 Gas & Oil Industry Laboratories, Inc., 4 Paine Av., Irvington 11, N. J.
 Gasolair Equipment Co., 137 Thompson St., New Haven, Conn.
 Gates & Co., Inc., George W., Hempstead Tpke & Lucille Ave., Franklin Sq., L. I., N. Y.
 Gates Engineering Co., Wilmington 99, Del.
 Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
 Gehri Sheet Metal Co., 1117 Tacoma Ave., Tacoma 3, Wash.
 Geisel Mfg. Inc., 633 W. Broad, Elyria, Ohio.
 Gelber & Sons, Inc., 5806 N. Lincoln Ave., Chicago 45, Ill.
 Gem Clay Forming Co., Box 500, Sebring, O.
 General Air Conditioning Corp., 4542 E. Dunham, Los Angeles.
 General Air Products Corp., Stirling, N. J.
 General Appliance Corp., Greenville, Mich.
 General Automatic Products Corp., 2300 Sinclair Lane, Baltimore, Md.
 General Blower Co., Inc., 6412 Girard Ave., Philadelphia 31.
 General Blower Co., Subsidiary of Ilg Electric Ventilating Co., 8600 Ferris Ave., Morton Grove, Ill.
 General Bronze Corp., Stewart Ave., Garden City, L. I., N. Y.
 General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
 General Controls Co., 801 Allen Av., Glendale 1, Calif.
 General Dynamics Corp., Liquid Carbonic Div., 135 S. LaSalle St., Chicago 3, Ill.
 General Electric Co., Air Conditioning Dept., Troup Highway, Tyler, Tex.
 General Electric Co., Apparatus Sales Offices, 1 River Rd., Schenectady 5, N. Y.
 General Electric Co., Appliance Control Dept., Morrison, Ill.
 General Electric Co., Capacitor Dept., Hudson Falls, N. Y.
 General Electric Co., Chemical Materials Dept., 1 Plastics Ave., Pittsfield, Mass.
 General Electric Co., Clock and Timer Dept., Ashland, Mass.
 General Electric Co., Large Lamp Dept., Nela Park, Cleveland 12, Ohio.
 General Electric Co., Metallurgical Products Dept., 11177 E. Eight Mile Rd., Detroit 32, Mich.
 General Electric Co., Room Air Conditioner Dept., Major Appliance Div., Appliance Park, Louisville 1, Ky.
 General Electric Co., Wiring Devices Dept., 95 Hathaway St., Providence, R. I.
 General Engineering Co., Bay City, Mich.
 General Filters, Inc., 43800 Grand River Ave., Novi, Mich.
 General Fittings Co., 123 Georgia Ave., Providence 3, R. I.
 General Metals, Inc., 858 Goldsboro St., Greensboro, N. C.
 General Oil Heating Corp., 322-6 55th St., West New York N. J.
 General Products Co., P. O. Box 887, Fredericksburg, Va.
 General Scientific Equipment Co., Limekiln Pike & Williams Ave., Philadelphia 50, Pa.
 General Sheet Metal Works, Inc., Silliman Av. & Ash St., Bridgeport 3, Conn.
 General Sound Control, Inc., 6711 S. Sepulveda Blvd., Los Angeles 45, Calif.
 General Tire & Rubber Co., 1708 Englewood, Akron, O.
 General Tire and Rubber Co., 1700 Factory St., Marion, Ind.
 General Tire and Rubber Co., Bolta Products Div., Lawrence, Mass.
 General Tire & Rubber Co., Industrial Products Div., Wabash, Ind.
 Genie Air Products Div. of N.T.W. Corp., 3001 E. 11th St., Los Angeles 23, Calif.
 Gentle-Flo Co., Yellow Springs Rd., Malvern, Pa.
 Gerett Corp., M. A. 724 W. Winnebago St., Milwaukee 3, Wis.
 Gerhardt, W. F., 2007 W. Broad St., Richmond 20, Va.
 Germatrol Corp., 7025 Chaucer St., Pittsburgh 8, Pa.
 Gerrard & Co., A. J., 406 E. Touhy St., Des Plaines, Ill.
 Gerstein & Cooper Co., Inc., 1 W. 3rd St., South Boston, Mass.

Gerwin Industries, Inc., Thermo-Base Div., 214 Spring St., Michigan City, Ind.
 Gibson Refrigerator Sales Corp., Sub. of Hupp Corp., 515 W. Williams St., Greenville, Mich.
 Gilbert & Barker Mfg. Co., West Springfield, Mass.
 Gilmore Burners, Inc., 1028 E. 134th St., Cleveland, O.
 Gisholt Machine Co., 1253 E. Washington Av., Madison 10, Wis.
 Glaser Lead Co., Inc., 31 Wyckoff Av., Brooklyn 37, N. Y.
 Glas-Kraft, Inc., 1 Railroad St., Slattersville, R. I.
 Glatt Gutter Anchors, 6549 N. Nixon, Chicago, Ill.
 Glen-Aire Mfg. Co., 601 South East St., Anaheim, Calif.
 Glenwood Range Co., 330 W. Water St., Taunton, Mass.
 Glidden Co., 900 Union Commerce Bldg., Cleveland 14, O.
 Global Air Conditioning Corp., 2045 Evans Ave., San Francisco 24, Calif.
 Globe Hoist Co., E. Mermaid Lane at Queen St., Philadelphia 18, Pa.
 Globe Roofing Products Co., Inc., 2207 Schrage Av., Whiting, Ind.
 Goder Incinerator Corp., 13920 S. Western, Blue Island, Ill.
 Goergen-Mackwirth Engineering Co., 813 Sycamore St., Buffalo 12, N. Y.
 Goethel Sheet Metal Works, Inc., Alfred, 3218 W. Fond du Lac Av., Milwaukee 10, Wis.
 Goldens' Foundry & Machine Co., P. O. Box 96, Columbus, Ga.
 Goldsmith Metal Lath Co., 4501 Chickering Ave., Cincinnati 32, Ohio.
 Gold Top Heating, Inc., 923 Oregon Ave., Butte, Mont.
 Goodfellow Co., Inc., E. D., 496 E. Bodley Ave., Memphis Tenn.
 Goodrich Chemical Co., B. F., 3135 Euclid Ave., Cleveland 15, O.
 Goodrich Co., B. F., Sponge Products, 280 Derby Pl., Shelton, Conn.
 Goodrich Industrial Products Co., B. F., 500 S. Main St., Akron, O.
 Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio.
 Gorman-Rupp Industries, Inc., Bellville, O.
 Goss Gas, Inc., Rt. 8, Glenshaw, Pa.
 Governair Corp., 4840 N. Sewell, Oklahoma City 4, Okla.
 Graham Mfg. Corp., New England Industrial Center, 152 Second Ave., Needham Hts. 94, Mass.
 Grainger, Inc., W. W., 2330 W. Adams St., Chicago 12, Ill.
 Gramco Steel Products Co., 6506 N. Broadway, St. Louis 15, Mo.
 Grand Island Furnace & Supply Co., 356 N. Elm St., Grand Island, Nebr.
 Grand Specialties Co., 3101 W. Grand Ave., Chicago 22, Ill.
 Granite City Steel Co., 20th & State Sts., Granite City, Ill.
 Grant Air Products, P. O. Box 143, Verona, N. J.
 Gray, G. L., 295 East St., P. O. Box 520, New Haven 3, Conn.
 Grayson Controls Div., Robertshaw-Fulton Controls Co., Long Beach 5, Calif.
 Great Northern Mfg. Corp., 1056 N. Wood St., Chicago 22, Ill.
 Great Western Steel Co., 2300 W. 58th St., Chicago 36, Ill.
 Green Colonial Inc., 322 S. W. Third St., Des Moines 6, Iowa.
 Greene, Tweed & Co., North Wales, Pa.
 Green Fire Brick Co., A. P., Mexico, Mo.
 Green Fuel Economizer Co., Inc., Beacon, N. Y.
 Greenheck Fan and Ventilator Corp., Schofield, Wis.
 Greist Mfg. Co., 446 Blake, New Haven 15, Conn.
 Grinnell Co., Inc., 260 W. Exchange St., Providence 1, R. I.
 Grob Inc., Grafton, Wis.
 Gross Furnace Mfg. Co., Inc., 24 Broome St., Salem, Va.
 Grove Furnace, Inc., 12262 E. Westminster Ave., P. O. Box 95, Garden Grove, Calif.
 Grover Machinery Co., 1252 Grover Rd., St. Louis 25, Mo.
 Grove Valve & Regulator Co., 6529 Hollis St., Oakland, Calif.
 Guard Coatings Corp., 8-05 43rd Ave., Long Island City 1, N. Y.
 Guardian Electric Mfg. Co., 1621 W. Walnut St., Chicago 12, Ill.
 Guardian Products Corp., 1215 E. 2nd St., Michigan City, Ind.
 Gustin-Bacon Mfg. Co., 210 West 10th St., Kansas City 7, Mo.

H

H. A. Mfg. Co., 1612 W. King St., York, Pa.
 H-B Instrument Co., American & Bristol Sts., Philadelphia 40, Pa.
 H & N Sheet Metal Fabricating Co., Inc., 205 Missouri Ave., Deer Lodge, Mont.
 H-P Products, Inc., 510 W. Broad St., Louisville, Ohio.
 H-P Tool Mfg. Corp., 124 E. Cumberland St., Philadelphia 25, Pa.
 Haaser Sales Co., 410 Justice St., Fremont, O.
 Haertel Co., Walter, 2840 - 4th Ave., S., Minneapolis, Minn.
 Hagan Mfg. Co., P. O. Box 249, Delphos, O.

Hago Products, 1120 Globe Ave., Mountainside, N. J.
 Hague & Co., Inc., Alfred, Div. of Lacquer & Chemical Corp., 214 40th St., Brooklyn 32, N. Y.
 Halbee Products Co., 387 Mill St., Parma, Mich.
 Hall-Neal Furnace Co., 1326 N. Capitol Ave., Indianapolis 7, Ind.
 Halstead & Mitchell, Bessemer Bldg., Pittsburgh 22, Pa.
 Hamlin Co., Inc., 746 Ellis St., San Francisco, Calif.
 Hammett Electric Co., 2311 Tauromee Ave., Kansas City 2, Kans.
 Hammond Machinery Builders, Inc., 1694 Douglas Av., Kalamazoo, Mich.
 Hampden Heating Supply, 93 Broad St., Springfield, Mass.
 Hampton Mfg. Co., Industrial Tape Div., 111 Cedar St., New Rochelle, N. Y.
 Handley-Brown Co., 2101 Brooklyn Rd., Jackson, Mich.
 Handy & Harman, 82 Fulton St., New York 38, N. Y.
 Hanovia Lamp Div., Engelhard Hanovia, Inc., 100 Chestnut St., Newark 5, N. J.
 Hansen Tool & Die Co., 1531 S. First St., Milwaukee, Wis.
 Hansson, Inc., Eloff, Acoustical Div., 711 3rd Ave., New York 17, N. Y.
 Hardco Products, 3624 Jerusalem Ave., Wantagh, N. Y.
 Harnischfeger Corp., 4400 W. National Ave., Milwaukee 46, Wis.
 Harper Co., H. M., 8200 Lehigh Ave., Morton Grove, Ill.
 Harrington & King Perforating Co., Inc., 5649 Fillmore St., Chicago 44, Ill.
 Harris Caloric Co., 5501 Cass Av., N. W., Cleveland 2, Ohio.
 Harris Machinery Co., 501 30th Ave., S. E., Minneapolis 14, Minn.
 Harrison Paint & Varnish Co., Midland Industrial Div., 1329 Harrison Ave., S. W., Canton 1, O.
 Harrison Sheet Steel Co., 4718 W. Fifth Av., Chicago 44, Ill.
 Hart & Cooley Mfg. Co., 500 E. Eighth St., Holland, Mich.
 Hart Heat Div., Avery Farm Machinery Co., Foot of Leland St., Peoria 2, Ill.
 Hart Mfg. Co., 132 Bartholomew, Hartford 1, Conn.
 Hartwell Co., 9035 Venice Blvd., Los Angeles 34, Calif.
 Hartzell Propeller Fan Co., Div. Castle Hills Corp., 1025 Roosevelt Av., Piqua, Ohio.
 Harvell-Kilgore Corp., Bolivar, Tenn.
 Harvey Aluminum, 19200 S. Western Ave., Torrance, Calif.
 Harvey-Hill, Inc., 9492 Watson Industrial Park, St. Louis 19, Mo.
 Harvey, Inc., Sid, 100 E. Mineola Av., Valley Stream, N. Y.
 Haskelite Mfg. Div., Evans Products Co., 701 Ann St., N. W., Grand Rapids 2, Mich.
 Haskins Co., R. G., 2631 W. Harrison St., Chicago 12, Ill.
 Hasko Utilities Co., 879 Tenth Ave., New York 19, N. Y.
 Hassall, Inc., John, Westbury, L. I., N. Y.
 Hastings Air Conditioning Co., Inc., Box 474, 108 S. Colorado Av., Hastings, Nebr.
 Hastings Air Control, Inc., 3215 Leavenworth St., Omaha 5, Nebr.
 Hastings-Raydist, Inc., Newcomb Ave., Hampton, Va.
 Hauck Mfg. Co., 124-136 Tenth St., Brooklyn 15, N. Y.
 Hauvette Div., Fayette Mfg. Co., 902 N. Fayette Ave., Fayette, O.
 Hauserman Co., E. F., 6800 Grant Av., Cleveland 5, Ohio.
 Haveg Corp., 900 Greenbank Rd., Wilmington 8, Del.
 Haven-Busch Co., 3443 Chicago Dr., S. W., Grandville, Mich.
 Havens Cooling Towers, Div. of Havens Structural Steel Co., 1713 Crystal Ave., Kansas City 26, Mo.
 Hawthorne Mfg. Corp., Box 256, Hawthorne, Pa.
 Hayes Furnace & Mfg. & Supply Co., 2929 S. Fairfax Ave., Los Angeles 16, Calif.
 Hayes Products Co., Box 202, Portsmouth, Va.
 Hays Corp., 742 E. Eighth St., Michigan City, Ind.
 Hays Mfg. Co., 801 W. 12th St., Erie 6, Pa.
 Hayward Gas Burner Div., Algonac Tool & Die Co., 5297 South River Rd., Algonac, Mich.
 Heat Controller, Inc., 1900 Wellworth, Jackson, Mich.
 Heatcrafters Manufacturers, Baileys Harbor, Wis.
 Heating Assurance, Inc., 124 E. Augusta Ave., Spokane 21, Wash.
 Heating Specialties Inc., Carroll P. O., Baltimore 29, Md.
 Heatmore, Inc., 651-5 Driggs Ave., Brooklyn 11, N. Y.
 Heat Reclaimer Mfg. Div., Dolin Metal Sales Corp., 315 Lexington Ave., Brooklyn 16, N. Y.
 Heat Recovery Corp., 671 Mt. Prospect Ave., Newark 4, N. J.
 Heatron, Inc., 333 Eberts Lane, York, Pa.
 Heat-Timer Corp., 657 Broadway, New York 12, N. Y.
 Heat-X Inc., Subsidiary of Dunham-Bush Inc., Brewster, N. Y.
 Hedges Mfg. Co., Inc., M. M., 700 E. Main St., Chattanooga, Tenn.
 Hedstrom Tool Co., P. O. Box 319, Montclair, N. J.
 Heidrich-Nourse Co., 631 E. 3rd St., Los Angeles 13, Calif.

Heil Process Equipment Corp., 12901 Elmwood Ave., Cleveland 11, O.
 Heil-Quaker Corp., P.O. Box 9176, Nashville, Tenn.
 Heimbach Incinerator Mfg. Co., 1612 University Ave., St. Paul 4, Minn.
 Heinrich Tools, Inc., 2707 Industrial Dr., Racine, Wis.
 Hendley & Whittemore Co., 6 Blackhawk Blvd., Beloit, Wis.
 Hendrick Mfg. Co., 37 Dundaff St., Carbondale, Pa.
 Henry Furnace Co., Medina, Ohio.
 Henry Valve Co., 3215 North Ave., Melrose Park, Ill.
 Henry & Wright Div., Embart Mfg. Co., 760 Windsor St., Hartford 1, Conn.
 Herbert Fuel Devices, Darien, Conn.
 Herco Oil Burner Corp., 131-133 Locust St., Lancaster, Pa.
 Hercules Chemical Co., Inc., 416 Broadway, New York 13, N. Y.
 Heresite & Chemical Co., 822 S. 14th, Manitowoc, Wis.
 HERRmidifier Co., Inc., 1810 Hempstead Rd., Lancaster, Pa.
 Hershey Motorstokor, Manheim, Pa.
 Hess Co., The, 1855 S. 54th Ave., Chicago 50, Ill.
 Hess Mfg. Co., Quincy, Pa.
 Hexdall Co., A. M., Morris, Ill.
 Higgins Metal Products Co., 2000 Broadway, Swanton, O.
 Highland Engineering Co., 1742 Berkeley St., Santa Monica, Calif.
 Highside Chemicals Inc., 10 Colfax Ave., Clifton, N. J.
 Hill & Co., E. Vernon, P. O. Box 189, Lake Geneva, Wis.
 Hillwood Mfg. Co., 21700 St. Clair Av., Cleveland 17, Ohio.
 Hi-Lo Mfg. Co., 2853 Columbus Ave., Minneapolis, Minn.
 Hi-Lok Mfg. Co., 1625 Massillon Rd., Akron, O.
 Hilti, Inc., Rapid Fastening Systems, 73 Southfield Ave., Stamford, Conn.
 Hinden Products Co., Box 4, Rockaway Park 94, N. Y.
 Hinding & Co., 201 W. 7th St., St. Paul, Minn.
 Hi-Press Air Conditioning of America, 405 Lexington Ave., New York 17, N. Y.
 Hi-Qua Mfg. Co., Inc., 4353 Leiper St., Philadelphia 24, Pa.
 Hirschman-Pohle Co., Inc., 9 Lent Av., LeRoy, N. Y.
 Hobart Bros. Co., Canal Lock Square, Troy 1, Ohio.
 Hohmann & Barnard, Inc., 204 E. 33rd St., New York 16, N. Y.
 Hollaender Mfg. Co., 3841 Spring Grove Ave., Cincinnati 23, Ohio.
 Hollup Corp., Div. National Cylinder Gas Co., 4700 W. 19th St., Chicago 50, Ill.
 Holly-General Co., 875 S. Arroyo Parkway, Pasadena 2, Calif.
 Holtzer-Cabot Motor Div., National Pneumatic Co., Inc., 125 Amory St., Boston 19, Mass.
 Holub Industries, Inc., Sycamore, Ill.
 HomEse Products Div. of Bogue Electric Mfg. Co., 52 Iowa Av., Paterson 3, N. J.
 Home Furnace Co., 280 E. 6th St., Holland, Mich.
 Home Heating and Cooling Inc., 225 River Dr., Passaic, N. J.
 Homestrand Machine Tool Corp., Greenwich, Conn.
 Homeward Products, Inc., 3420 S. W. 9th St., Des Moines, Ia.
 Hones, Inc., Charles A., 2473 S. Grand Av., Baldwin, N. Y.
 Hoover Ball & Bearing Co., 5400 S. State Rd., Ann Arbor, Mich.
 Horn Co., Inc., A. C., 2133 85th St., North Bergen, N. J.
 Hossfeld Mfg. Co., 460 W. Third St., Winona, Minn.
 Hotpoint Div., General Electric Co., 5600 W. Taylor St., Chicago 44, Ill.
 Hotstream Heater Co., 2563 E. 69th St., Cleveland 4, Ohio.
 Howard Industries, Inc., Racine, Wis.
 Howard Iron Wks. & Alberger Heater Div., 287 Chicago St., Buffalo 4, N. Y.
 Howes-Woods Co., 210 Bridge St., Cambridge 41, Mass.
 Hoyt Heater Co. of No. Calif., 926 High St., Oakland, Calif.
 Hubbell Corp., Box 700, Hawley Rd., Mundelein, Ill.
 Hub Specialty Co., 53 Salem St., Reading, Mass.
 Huck Mfg. Co., 2480 Bellevue Av., Detroit 7, Mich.
 Hugert Mfg. Co., RD 1, Box 181, Medina, O.
 Humphrey Div., Arkla Air Conditioning Corp., 812 Main St., Little Rock, Ark.
 Huncilman & Son, Bert R., 2072 McDonald Ave., New Albany, Ind.
 Hunter Div., Robbins & Myers, Inc., 2500 Frisco Ave., Memphis, Tenn.
 Hunt Valve Co., Salem, Ohio.
 Hussey & Co., C. G., 2850 Second Av., Pittsburgh 19, Pa.
 Hydrovalve Co., 1319 Utica Ave., Brooklyn 3, N. Y.
 Hygrodynamics, Inc., 949 Selim Rd., Silver Spring, Md.
 Hynes & Cox Electric Corp., Burnt Hills, N. Y.
 Hynes Electric Heating Co., Mountainside, N. J.
 Ideas, Inc., 214 Ivinson Ave., Laramie, Wyo.
 Ilg Electric Ventilating Co., 2850 N. Palaski Rd., Chicago 41, Ill.
 Illinois Bronze Powder Co., Inc., 2023 S. Clark St., Chicago 16, Ill.
 Illinois Iron & Bolt Co., Carpentersville, Ill.
 Illinois Testing Laboratories, Inc., 420 N. LaSalle St., Chicago 10, Ill.
 Illinois Zinc Co., Div. of Hydrometals Inc., 2959 W. 47th St., Chicago 32, Ill.
 Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago, Ill.
 Imperial Damper Co., 664 Edgecombe Ave., New York 22, N. Y.
 Imperial Electric Co., 64 Ira Av., Akron 9, Ohio.
 Incinerator Products Co., 655 S. Post, Detroit 17, Mich.
 Independent Blade Co., Div. Westlund Industries, 533 Main St., East Haven 12, Conn.
 Independent Nail & Packing Co., Bridgewater, Mass.
 Independent Register Co., 3747 E. 93rd St., Cleveland 5, Ohio.
 Industrial Acoustics Co., Inc., 341 Jackson Ave., New York 54.
 Industrial Brownhoist Corp., 135 Washington, Bay City, Mich.
 Industrial Engineering and Equipment Co., 24 Hanley Industrial Court, Brentwood 17, Mo.
 Industrial Equipment Co., The, 115 N. Ohio St., Minster, O.
 Industrial Metal Protectives, 401 Homestead Av., Dayton, Ohio.
 Industrial Plastic Fabricators, Inc., Norwood, Mass.
 Industrial Service Laboratories, 710 W. National Ave., Milwaukee 4, Wis.
 Infra Insulation Inc., 167 Western Highway, West Nyack, N. Y.
 Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
 Ingersoll Steel Div., Borg-Warner Corp., 200 S. Michigan Ave., Chicago, Ill.
 Ingram-Richardson Mfg. Co., Beaver Falls, Pa.
 Inland Heater Corp., Chilcombe and Hwy. 280, St. Paul 8, Minn.
 Inland Mfg. Div., General Motors Corp., P. O. Box 1050, Dayton 1, O.
 Inland Steel Co., 30 W. Monroe St., Chicago 3, Ill.
 Inland Steel Products Co., 4023 W. Burnham St., Milwaukee 1, Wis.
 Insto-Gas Corp., 998 E. Woodbridge St., Detroit 7, Mich.
 Insulating Equipment, Inc., 39 S. LaSalle St., Chicago 3, Ill.
 Insulation & Refractories Co., 48 Commercial St., Webster, N. Y.
 Insul-Coustic Corp., 42-23 54th Rd., Maspeth 78, N. Y.
 Insulite Div., Minnesota & Ontario Paper Co., Investors Bldg., Minneapolis 2, Minn.
 Insul-Cell Mfg. Co., 2917 W. Jackson St., Muncie, Ind.
 Insul-Wool Insulation Co., 1228 S. Main St., Council Bluffs, Iowa.
 Interchemical Corp., Finishes Div., 224 McWhorter St., Newark 1, N. J.
 Inter-Coastal Paint Co., 13th & Southern R. R., East St. Louis, Ill.
 International Covers for Air Conditioners Corp., 532 Broadway, New York 12, N. Y.
 International Exposition Co., 480 Lexington Ave., New York 17, N. Y.
 International Harvester Co., Motor Truck Div., 180 N. Michigan Ave., Chicago 1, Ill.
 International Heater Co., 101 Park Av., Utica 2, N. Y.
 International Mfg. Co., 600 E. Grand, Oklahoma City, Okla.
 International Metal Hose Co., Ashford Ave., Bellevue, O.
 International Metal Products Div., McGraw-Edison Co., P. O. Box 13268, Phoenix, Ariz.
 International Nickel Co., Inc., 67 Wall St., New York 5, N. Y.
 International Oil Burner Co., Park & Spring, St. Louis 10, Mo.
 International Process Equipment Co. Div., Patterson Foundry and Machine Co., 1250 St. George St., East Liverpool, O.
 International Register Co., 2620 W. Washington Blvd., Chicago 12, Ill.
 International Staple and Machine Co., Materials Handling Div., P. O. Box 270, Herrin, Ill.
 International Steel Co., 1556 Edgar St., Evansville, Ind.
 International Vermiculite Co., Girard, Ill.
 Interstate Drop Forge Co., Special Products Div., 4051 N. 27th St., Milwaukee 16, Wis.
 Interstate Heater Mfg. Co., 2627 W. 6th Ave., Denver, Colo.
 Interstate Machinery Co., Inc., 1433 W. Pershing Road, Chicago 9, Ill.
 Interstate Sales Co., 123 E. 18th St., New York 3, N. Y.
 Iona Ventilator Co., Inc., 2821-29 W. Dauphin St., Philadelphia 32, Pa.
 Iowa Paint Mfg. Co., Inc., 118-20 Eighth St., Des Moines 9.
 Iron Fireman Mfg. Co., 3170 W. 106th St., Cleveland 11.
 Iron-Hide Sales Co., Dock St., Matawan, N. J.
 Iron Lung Ventilator Co., 5403 Prospect Ave., Cleveland 3, Ohio.
 Irvington Div., Minnesota Mining & Mfg. Co., Willow Brook Rd., Box 108, Freehold, N. J.
 Isoflex Corp., 1564 Rollins Rd., Burlingame, Calif.

J

J & J Sheet Metal Co., 23836 Hoover Rd., Warren, Mich.
 Jabsco Pump Co., 1485 Dale Way, Costa Mesa, Calif.
 Jack & Heintz, Inc., 17600 Broadway, Cleveland 1, Ohio.
 Jackson-Evans Mfg. Co., 4427 Geraldine Ave., St. Louis 15, Mo.
 Jackson & Church Div., York-Shipley, Inc., 500 Jessop Pl., York, Pa.
 Jackson Mfg. Co., Inc., W. L., 1222 E. 40th St., Chattanooga, Tenn.
 Jalco Mfg. Co., 505 Elnore Ave., Temple, Pa.
 Jamestown Metal Corp., 104 Blackstone Av., Jamestown 6, N. Y.
 Jan-Air Inc., Richmond, Ill.
 Janitrol Heating and Air Conditioning Div., Midland-Ross Corp., 400 Dublin Ave., Columbus 16, O.
 Jay-Zee Mfg. Co., 10623 S. Ridgeland, Chicago Ridge, Ill.
 Jefferson Electric Co., 25th & Madison St., Bellwood, Ill.
 Jemco Tool Corp., 22 State St., Seneca Falls, N. Y.
 Jenn Air Products Co., 1102 Stadium Dr., Indianapolis, Ind.
 Jessop Steel Co., Washington, Pa.
 Jet Burner Inc., 518 E. 30th, Hutchinson, Kans.
 Jet-Heat, Inc., 152 S. Van Brunt St., Englewood, N. J.
 Johns Mfg. Co., Middlesex, N. J.
 Johns-Manville, 22 E. 40th St., New York 16, N. Y.
 Johnson Co., S. T., 940 Arlington Ave., P. O. Box 8152, Oakland 8, Calif.
 Johnson Furnace Co., The, 2129 W. 117th St., Cleveland 11, O.
 Johnson Gas Appliance Co., 520 "E" Av., N. W., Cedar Rapids, Iowa.
 Johnson Heater Corp., 1 Winnisimmet St., Chelsea, Mass.
 Johnson Ladder Shoe Co., Eau Claire, Wis.
 Johnson Machine & Press Corp., Div. of Bontrager Corp., 620 W. Indiana Av., Elkhart, Ind.
 Johnson Mfg. Co., Inc., Mount Vernon, Iowa.
 Johnson Service Co., 507 E. Michigan St., Milwaukee 1, Wis.
 Jones & Laughlin Steel Corp., 3 Gateway Center, Pittsburgh 30, Pa.
 Jones & Laughlin Steel Corp., Stainless and Strip Div., Box 4606, Detroit 34, Mich.
 Jones Machinery Div., Hewitt-Robins, Inc., 4401 W. Roosevelt Rd., Chicago 24, Ill.
 Jordan & Co., Inc., Paul R., 520 S. New Jersey St., Indianapolis 25, Ind.
 Joy Mfg. Co., Oliver Bldg., Pittsburgh 22, Pa.
 Junger Stove & Range Co., Grafton, Wis.
 Juniper Elbow Co., Inc., 72-15 Metropolitan Av., Middle Village, L. I., N. Y.
 Justrite Mfg. Co., 2061 N. Southport Ave., Chicago, Ill.

K

K-G Equipment Co. (Inc.), 1744 Lehigh St., Allentown, Pa.
 K S M Products, Inc., 301 New Albany Rd., Moorestown, N. J.
 KVS Industries Inc., 2165 Colfax St., North Sacramento, Calif.
 Kaiser Aluminum & Chemical Sales, Inc., Kaiser Center, Oakland, Calif.
 Kalamazoo Furnace & Appliance Mfg. Co., 615 Second Ave., Kalamazoo, Mich.
 Kamlar Products Co., 932 R Washington St., Norwood, Mass.
 Kane & Roach, Inc., Niagara & Shonnard Sts., Syracuse 4, N. Y.
 Karyall Body, Inc., 8221 Clinton Rd., Cleveland 9, O.
 Kauffman Air Conditioning Corp., 4336 W. Pine Blvd., St. Louis, Mo.
 Kaufman Co., H. J., 13215 Roselawn Ave., Detroit 38, Mich.
 Kaustine Furnace & Tank Corp., 1492 Washington Ave., Perry, N. Y.
 Kawneer Co., Niles, Mich.
 Kaykor Industries, Inc., Yardville, N. J.
 Keasbey & Mattison Co., Butler Av., Ambler, Pa.
 Keckley Co., O. C., 3400 Cleveland St., Skokie, Ill.
 Keeney Mfg. Co., Newington, Conn.
 Keith Furnace Co., Dean Av. at E. 26th, Des Moines 17, Iowa.
 Kelvinator Div., American Motors Corp., 14250 Plymouth Rd., Detroit 42, Mich.
 Kemlite Corp., 101 N. Republic Ave., Joliet, Ill.
 Kenco Mfg. Co., 5211 Telegraph Rd., Los Angeles 22, Calif.
 Kendall Co., Walpole, Mass.
 Kendall Co., The, 309 W. Jackson Blvd., Chicago 6, Ill.
 Kenetzer & Co., Frank, 811 W. Van Buren, Chicago, Ill.
 Ken-Joy Gas Burner Co., 3231 W. National Av., Milwaukee 15.
 Kenmore Machine Products, Inc., 15 Depew Ave., Lyons, N. Y.
 Kennametal Inc., Latrobe, Pa.
 Kennard Corp., 1270 Price Rd., St. Louis 14, Mo.
 Kennedy Products Co., 4616 Royal Palm Circle, Phoenix, Ariz.
 Kensico Tube Co. Div., Robinson Technical Products, Inc., Mt. Kisco, N. Y.
 Kent Co., Inc., 435 Canal St., Rome, N. Y.

Kent-Moore Organization, Inc., 28635 Mound Rd., Warren, Mich.
 Kerner Incinerator Div., Morse-Boulger, Inc., 80 Fifth Ave., New York 11, N. Y.
 Kerotest Mfg. Co., 2525 Liberty Av., Pittsburgh 22, Pa.
 Kesco Products, P. O. Box 84, Springfield Gardens 13, N. Y.
 Kester Solder Co., 4201 Wrightwood Av., Chicago 39, Ill.
 Kett Tool Co., 3055 Madison Rd., Cincinnati 27, O.
 Keystone Flashing Co., 2310 N. 28th St., Philadelphia 32, Pa.
 Kice Metal Products Co., 485 S. Washington Ave., Wichita 2, Kans.
 Kidde Mfg. Co., Inc., Bloomfield, N. J.
 Kidder Mfg. Co., Inc., J. F., 426 Colchester Av., Burlington, Vt.
 Kilbury Mfg. Co., Inc., 14529 Hawthorne Blvd., Lawndale, Calif.
 Killam Gas Burner Co., 1240 S. Bannock, Denver 23, Colo.
 Kindt-Collins Co., 12653 Elmwood Ave., Cleveland 11, Ohio
 King Co. Box 178, Owatonna, Minn.
 King Electrical Mfg. Co., 9210 14th, S., Seattle 8, Wash.
 King Refrigerator Co., 7602 Woodhaven Blvd., Glendale 27, N. Y.
 Kingston-Conley, Inc., Div. of Howell Electric Motors Co., 900 North Ave., Plainfield, N. J.
 Kingston-National Controls, Div. Kingston Industries Inc., 35 North St., Medfield, Mass.
 King Stove and Range Co., Sheffield, Ala.
 Kinney Vacuum Div., The New York Air Brake Co., 3529 Washington St., Boston, Mass.
 Kirel, Inc., P. O. Box 387, Kingston, N. Y.
 Kirk & Blum Mfg. Co., 3120 Forrer St., Cincinnati 9, O.
 Kirk & Son, Inc., Morris P., 2717 S. Indiana St., Los Angeles 23, Calif.
 Kirsch Co., Refrigeration Div., Sturgis, Mich.
 Kisco Boiler & Engineering Co., 2414 Dekalb St., St. Louis 4, Mo.
 Klauer Mfg. Co., 9th & Washington St., Dubuque, Iowa.
 Kleen-Air, Inc., 230 N. Maple St., Payne, O.
 Kleer-Kleen Mfg. Co., 105 Orchard Ave., Hayward, Calif.
 Klem Chemicals, Inc., 14401 Lanson Av., Dearborn, Mich.
 Klemm Automotive Products Co., 1718 N. Damen Ave., Chicago 47, Ill.
 Klenk, Inc., Karl, 107 E. 5th St., Wilmington, Del.
 Kling Bros. Engineering Works, 1320 N. Kostner Ave., Chicago 51, Ill.
 Klipfel Valves, Inc., 1075 Lincoln Ave., Hamilton, Ohio.
 Kloppenborg Foundry & Fan Co., 211 Marquette St., Davenport Iowa.
 Knapp Bros. Mfg. Co., 9000 Shell Rd., Cincinnati 36, O.
 Knickerbocker Products Co., 1803 Webster, Dayton, O.
 Knowles Mushroom Ventilator Co., 160 Bellevue Ave., Upper Montclair, N. J.
 Kohlenberger Engineering Corp., 1600 W. Commonwealth Ave., Fullerton, Calif.
 Kolb Refractories Co., Meadow & Jackson Sts., Philadelphia, Pa.
 Kol-Master Corp., Oregon, Ill.
 Kool Air Engineering Co., 7122 Fairfax Dr., San Bernardino, Calif.
 Kool Engineering Corp., 1320 N. Clybourn Ave., Chicago 10, Ill.
 Koolvent Metal Awning Corp. of America, 902 Arrott Bldg., Pittsburgh 22, Pa.
 Koppers Co., Inc., Metal Products Div., 200 Scott St., Baltimore 3, Md.
 Koppers Co., Inc., Tar Products Div., Koppers Bldg., Pittsburgh 19, Pa.
 Korfund Co., Cantiague Road, Westbury, L. I., N. Y.
 Koven & Bro., Inc., L. O., Richboynnton Rd., Dover, N. J.
 Kraissl Co., Inc., Terhune & Williams Aves., Hackensack, N. J.
 Kramer Trenton Co., N. Olden & Breunig Ave., Trenton 5, N. J.
 Krauser-Boyd, Inc., 28 Wheatfield St., North Tonawanda, N. Y.
 Kresky Mfg. Co., Inc., Second & H Sts., Petaluma, Calif.
 Kresno-Stamm Mfg. Co., 421 Broad St., Palisades Park, N. J.
 Krieg, Inc., Victor J., 611 Broadway, New York 12, N. Y.
 Kritzer Products, Div. of Peerless of America, Inc., 5800 N. Pulaski Rd., Chicago 46, Ill.
 Kritzer Radiant Coils, Inc., 325 N. River St., Batavia, Ill.
 Krueger Air Conditioning Corp., 19 E. Rillito St., Tucson, Ariz.
 Krueger Sentry Gauge Co., Green Bay, Wis.
 Kuehn Tool Co., 225 E. First Ave., Roselle, N. J.

L

Labeled Metal Products Corp., 2000 Cermak Rd., Broadview, Ill.
 Laclede Steel Co., Arcade Bldg., St. Louis 1, Mo.
 Laco Oil Burner Co., Inc., 238 Union St., Griswold, Iowa.
 LaCrosse Steel Roofing & Corrugating Co., 227 Jay St., LaCrosse, Wis.

- Laharco Industries, Inc., 721 2nd Ave., N., Minneapolis 5, Minn.
- Lake Chemical Co., 3052 W. Carroll Ave., Chicago 12, Ill.
- Lake Erie Machinery Corp., Riverview & Woodward, Buffalo 7, N. Y.
- Lakewood Engineering & Mfg. Co., 212 N. Carpenter St., Chicago 7, Ill.
- Laminated Sheet Products Corp., 449 Neponset St., Norwood, Mass.
- Lammert & Mann Co., Wood & Walnut Sts., Chicago 12, Ill.
- Lane Sheet Metal, 212 16th Ave., S. W., Minot, N. D.
- Langenkamp Co., F. H., 229 E. South St., Indianapolis 25, Ind.
- Lantz Mfg. Co., Inc., Valparaiso, Ind.
- Lapeer Mfg. Co., 1144 W. Baltimore, Detroit 2, Mich.
- Laramy Products Co., 220 Beechwood St., Cohasset, Mass.
- Larkin Coils, Inc., 519 Memorial Dr., S. E., Atlanta 1, Ga.
- Lasco Industries, 1561 Chapin Rd., Montebello, Calif.
- Lastik Paint, Inc., Suite 406, 200 S. Craig St., Pittsburgh 13, Pa.
- Lau Blower Co., 2027 Home Av., Dayton 7, Ohio.
- Laurel Products, Inc., P. O. Box 946, Laurel, Miss.
- Lawson Mfg. Co., P. O. Box 10590, Pittsburgh 35, Pa.
- Leas Co., H. Leslie, Monona, Iowa.
- Lee Corporation, P. O. Box 1801, Wilmington, Del.
- Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Lee Filter Corp., Edison, N. J.
- Leeson Air Conditioning Corp., 14631 Meyers Rd., Detroit 27.
- Lehigh Fan & Blower Div., Fuller Co., Catsauqua, Pa.
- Lehigh Mfg. Co., Div. of Lehigh, Inc., Easton, Pa.
- Leigh Industries Inc., P. O. Box 2599, Asheville, N. C.
- Leisur-Maid Mfg. Co., 154 Indiana Ave., N. W., Grand Rapids 4, Mich.
- Leland Ohio Electric Co., Subsidiary of Howell Electric Motors Co., 1501 Webster St., Dayton 1, Ohio.
- Lenk Mfg. Co., Franklin, Ky.
- Lenly Mfg. Co., Inc., 901 E. Ninth St., Los Angeles 21, Calif.
- Lennox Industries Inc., 200 S. 12th Av., Marshalltown, Iowa; 1705 Olentangy River Rd., Columbus, Ohio; 400 N. Midler Av., Syracuse, N. Y.
- Lennox Tool & Machine Builders, 651 N. Baxter, Lima, O.
- Leslie Creations, Lafayette Hill, Pa.
- Leslie Welding Co., Inc., 11241 W. Melrose St., Franklin Park, Ill.
- Lester Laboratories, Inc., P. O. Box 4897, Atlanta 2, Ga.
- Leukart Machine Co., J., 2222 S. Third St., Columbus, O.
- Lewow Inc., David, 7 Georgia St., South Hackensack, N. J.
- Lewbill Industries, Inc., 8 Spring St., Scottsdale, Pa.
- Lewellen Mfg. Co., 1428 10th St., Columbus, Ind.
- Lewin-Mathes Co., Div. of Cerro De Pasco Corp., 1111 Chouteau Ave., St. Louis 2, Mo.
- Lewyt Air-Conditioner Corp., 43-22 Queens St., Long Island City 1, N. Y.
- Lexsco, Inc., P. O. Box 9530, Solon 39, O.
- L'Hommedieu & Sons Co., Chas. F., 4521 Ogden Av., Chicago 23, Ill.
- Libbey-Owens-Ford Glass Co., 811 Madison Ave., Toledo 1, O.
- Libert Machine Co., 324 N. Roosevelt St., Green Bay, Wis.
- Liberty Combustion Corp., P. O. Box 300, Syracuse 1, N. Y.
- Lignum-Vitae Products Corp., 906 Boyd Av., Jersey City, N. J.
- Lillie-Hoffmann Cooling Towers, Inc., 1450 S. Vandeventer Ave., St. Louis 10, Mo.
- Lima Electric Motor Co., Inc., Dept. 10, Lima, O.
- Lima Register Co., 1790 N. Cable Rd., Lima, Ohio.
- Lincoln Air Control Products, Inc., P. O. Box 359, Swarthmore, Pa.
- Lincoln Brass Works, 2067-12th St., Detroit, Mich.
- Lincoln Electric Co., 22801 St. Clair Av., Cleveland 17, Ohio.
- Lincoln Furnace Co., Inc., 230-244 Goffle Rd., Hawthorne, N. J.
- Lind Co., C. W., P. O. Box 7501, 3403 Penn Ave., N., Minneapolis 11, Minn.
- Linde Co., Div. Union Carbide Corp., 270 Park Ave., New York 17, N. Y.
- Link-Belt Co., Prudential Plaza, Chicago 1, Ill.
- Liquidometer Corp., Skillman Av., 36th and 37th Sts., Long Island City 1, N. Y.
- Littell Machine Co., F. J., 4131 N. Ravenswood Ave., Chicago 13, Ill.
- Little Burner Co., Inc., H. C., Woodland Ave. & Du Bois St., San Rafael, Calif.
- Littleford Bros., Inc., 453 E. Pearl St., Cincinnati 2, Ohio.
- Little Giant Pump Co., Div. of Little Giant Vaporizer Co., Inc., 3810 N. Tulsa, P. O. Box 7025, Oklahoma City, Okla.
- Livingston, Inc., Kalamazoo Av., Marshall, Mich.
- Lloyd Register & Grille, Box 45, Toronto 18, Ont., Canada
- Locke Regulator Co., Walter and Osborne Sts., Salem, Mass.
- Locke Stove Co., 114 W. 11th St., Kansas City 5, Mo.
- Lockformer Co., 4615 Roosevelt Rd., Chicago 50, Ill.
- Lockhart Mfg. Corp., 32840 W. 8 Mile Rd., Farmington, Mich.
- Lockport Mills Inc., Lockport, N. Y.
- Lodding Inc., 75-79 Beacon St., Worcester 1, Mass.
- Loline Steel Boiler Co., 235 S. Penn St., Allentown, Pa.
- London Chemical Co., 1335 N. 31st Ave., Melrose Park, Ill.
- Lord Mfg. Co., 1635 W. 12th St., Erie, Pa.
- Los Angeles Sheet Metal Mfg. Co., Inc., 900 E. Ninth St., Los Angeles 21, Calif.
- Lovejoy Flexible Coupling Co., 4841 Lake St., Chicago 44, Ill.
- Lovekin Water Heater Co., 39 Laurel St., Philadelphia 23, Pa.
- Luber Mfg. Co., P.O. Box 338, Ceres, Calif.
- Ludlow Papers, A Division of Ludlow Corp., Needham Heights 94, Mass.
- Lufkin Rule Co., Saginaw, Mich.
- Lug-All Co., 355 Lancaster Ave., Haverford, Pa.
- Lukens Metal Co., Thos. F., Hedley & Bath Sts., Philadelphia 37, Pa.
- Lukens Steel Co., 415 Services Bldg., Coatesville, Pa.
- Lumm Co., A. H., 3151 South Ave., Toledo 9, O.
- Lundt, Inc., Ernest C., Route 46, P. O. Box 216, Little Falls, N. J.
- Lustrik, Inc., 3235 Frankford Av., Philadelphia 4, Pa.
- Luty Furnace Mfg. Co., 8321 W. Davison Ave. Detroit 38, Mich.
- Luxra Co., 1018 Commercial, Atchison, Kans.
- Luzerne Rubber Co., Muirhead Ave., Trenton 7, N. J.
- Lyman Sheet Metal Co., Inc., Southampton, Hampshire Co., Mass.
- Lynch & Sons, Kenneth, 80 Main Ave., Wilton, Conn.
- Lynn Corp., Inc., 234 S. Fountain St., Marshall, Mich.
- Lynn Products Co., 17 Willow St., Lynn, Mass.
- Lyon Metal Products, Inc., 740 Railroad Ave., Aurora, Ill.
- Lyons, Edward W., 115 W. Glenaven Ave., Youngstown 7, O.

M

- MB Electronics, A Div. of Textron Electronics, Inc., P. O. Box 1825, New Haven 8, Conn.
- M & E Mfg. Co., 2581 W. Winthrop, Indianapolis 5, Ind.
- M & W Sales Corp., 14-47 31st Ave., Long Island City, N. Y.
- Madden Brass Products Co., P. O. Box 444, Aurora, Ill.
- Made-Rite Co., Inc., 10th & Monroe St., Newport, Ky.
- Magic Aire Div., United Electric Co., 500 Block Galveston St., Wichita Falls, Tex.
- Magic Servant Products Co., 15211 Joy Rd., Detroit 28, Mich.
- MaGill Foundry & Furnace Co., 413 E. Oakland Ave., Bloomington, Ill.
- Magnus Chemical Co., Garwood, N. J.
- Mahon Co., R. C., 6565 E. 8 Mile Rd., Detroit 34, Mich.
- Maid-O'-Mist Inc., 3217 N. Pulaski Rd., Chicago 41, Ill.
- Main Cornice Works, Inc., 2824 N. Main St., Los Angeles, Calif.
- Majestic Co., Inc., 733 Erie St., Huntington, Ind.
- Major Controls Co., 13985 E. 6th St., P. O. Box 537, Corona, Calif.
- Major Metal Products, Inc., 707 E. 61st St., Los Angeles 1, Calif.
- Malco Products, 3356 Gorham Ave., Minneapolis 26, Minn.
- Malden Research and Development Co., Inc., 1130 Main St., Malden, Boston 48, Mass.
- Mallory Co., Inc., P. R., 52 S. Gray St., Indianapolis 6, Ind.
- Mallory-Sharon Metals Corp., Niles, O.
- Malm Mfg. Co., 1565 Como Ave., St. Paul, Minn.
- Mamco Corp., 4th & Ontario St., Racine, Wis.
- Mammoth Industries Inc., 6425 Cambridge St., Minneapolis 26.
- Manhattan Perforated Metal Co., Inc., 43-17 37th St., Long Island City 1, N. Y.
- Manheim Mfg. and Belting Co., 272 Stiegel St., Manheim, Pa.
- Mannesmann-Easton Plastic Products Co., Inc., 900 Line St., Easton, Pa.
- Manning Co., Charles E., 90 Clairton Blvd., Pittsburgh 36, Pa.
- Manning, Maxwell & Moore, Inc., 250 E. Main St., Stratford, Conn.
- Mansfield Sanitary, Inc., Perrysville, O.
- Manville Boiler Co., Inc., Singer St., Hackettstown, N. J.
- Mapes Industries, Inc., P. O. Box 2067, 2929 Cornhusker Hwy., Lincoln, Nebr.
- Maple City Furnace Co., Monmouth, Ill.
- Maplewood Div., Rockford Machine Tool Co., 2500 Kishwaukee St., Rockford, Ill.
- Marathon Electric Mfg. Corp., Cherry & Randolph Sts., Wausau, Wis.
- Marble Electric Corp., Gladstone, Mich.
- March Mfg. Co., 8015 N. Lawndale Ave., Skokie, Ill.
- Marco Co., 45 Greenwood Ave., East Orange, N. J.
- Marco Electric Mfg. Corp., Third & Franklin St., Womelsdorf, Pa.
- Marine Electrolysis Eliminator Co., 1137 W. Hanford, Seattle 4, Wash.
- Markal Co., 3052 W. Carroll Ave., Chicago 32, Ill.

Markel Electric Products, Inc., 145 Seneca St., Buffalo 3, N. Y.
 Markwell Mfg. Co., Inc., 424 W. 33rd St., New York 1, N. Y.
 Marley Co., The, 222 W. Gregory Blvd., Kansas City 14, Mo.
 Marlo Coil Co., 7100 S. Grand Ave., St. Louis 11, Mo.
 Marquette Mfg. Co., Div. of Marquette Corp., 307 E. Hennepin Ave., Minneapolis 14, Minn.
 Marshalltown Mfg. Co., 901 E. Nevada St., Marshalltown, Iowa.
 Marsh Corp., Jas. P., Skokie, Ill.
 Martens & Stormoen Co., 231 Willard St., West Quincy 69, Mass.
 Martin Co., Inc., J. O., 637 Minna St., San Francisco 3, Calif.
 Martin Fan & Blower Co., 4634 W. 21st Place, Chicago 30, Ill.
 Martin Stamping & Stove Co., Huntsville, Ala.
 Marvin Electric Mfg. Co., 648 Santa Fe Ave., Los Angeles 21, Calif.
 Marviray, Inc., 34 Clifton St., Newark 3, N. J.
 Masland Duralather Co., Philadelphia 34, Pa.
 Mason Products, Inc., Woburn, Mass.
 Master-Craft Industries, Inc., 109 Lanza Ave., Garfield, N. J.
 Master Electric Co., Div. of Reliance Electric and Engineering Co., 126 Davis Av., Dayton 1, Ohio.
 Master Power Corp., Subsidiary of Black & Decker Mfg. Co., 6225 Cochran Rd., Solon 39, O.
 Master Products Co., 7000 S. Wentworth, Chicago 21, Ill.
 Master Vibrator Co., 1752 Stanley, Dayton, O.
 Mathes Co., The, Div. of Glen Alden Corp., Marble Falls, Tex.
 Matt Coil-Less Burner Co., 4015 W. Lake St., Chicago 24, Ill.
 Matthews Electric Heater Mfg. Co., Albertville, Ala.
 Matthiessen & Hegeler Zinc Co., LaSalle, Ill.
 Maur Engineering, 2325 Colfax St., Evanston, Ill.
 Maurey Mfg. Corp., 2915 S. Wabash Av., Chicago 16, Ill.
 Maurlee Co., Inc., South Evergreen Ave., Woodbury Hts., N. J.
 Maxitrol Co., 23555 Telegraph Rd., Southfield, Mich.
 Mayflower Air Conditioners, Inc., Duluth Ave. & E. Seventh St., St. Paul 6, Minn.
 Mayne Products Co., 324 Harries Bldg., Dayton 2, Ohio.
 Maze Co., W. H., Peru, Ill.
 McCabe Powers Auto Body Co., 5900 N. Broadway, St. Louis, Mo.
 McCollum Hoist & Mfg. Co., 721 Rogers St., Downers Grove, Ill.
 McCord Corp., 2587 E. Grand Blvd., Detroit 11, Mich.
 McCorkle Co., D. H., Sixth & Bancroft Way, Berkeley 10, Calif.
 McDaniel Mfg. Co., Inc., 1012 Powhattan St., Dallas 2, Texas.
 McDonald Mfg. Co., A. Y., 12th & Pine Sts., Dubuque, Ia.
 McDonnell & Miller, Inc., 3500 N. Spaulding Av., Chicago 18, Ill.
 McIntire Co., Okner Parkway, P. O. Box 3, Livingston, N. J.
 McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
 McKay Perforating Co., Inc., 4340 N. 127th St., Brookfield, Wis.
 McLarty Systems, 2600 Dickman, Battle Creek, Mich.
 McLean Engineering Laboratories, P. O. Box 228, Princeton, N. J.
 McLouth Steel Corp., 300 S. Livernois, Detroit 17, Mich.
 McMillan Comfortaire Heat Pumps, Inc., P. O. Box 5897, Jacksonville 7, Fla.
 McPherson Furnace & Supply Co., 1805 N. E. 2nd Ave., Portland 12, Ore.
 McQuay, Inc., 1600 Broadway, N. E., Minneapolis 13, Minn.
 McQuay-Norris Mfg. Co., Southwest Ave. at Marconi, St. Louis, 10, Mo.
 Meadows, Inc., W. R., 2 Kimball St., Elgin, Ill.
 Mears Electric Controls, P. O. Box 3798, Portland 8, Ore.
 Meier Electric, 3525 E. Washington St., Indianapolis 7, Ind.
 Melchior, Armstrong, Dessau Co., Ridgefield, N. J.
 Melco Products, Inc., 301 5th Ave., S., Minneapolis, Minn.
 Mel-Gauge Co., P. O. Box 126, Station A, New Haven, Conn.
 Mephisto Tool Co., Inc., P. O. Box 16, Hudson, N. Y.
 Merchandising and Mfg. Associates, Inc., 53 North Duke St., Lancaster, Pa.
 Mercoid Corp., 4201 Belmont Ave., Chicago 41, Ill.
 Meriam Instrument Co., 10920 Madison Ave., Cleveland 2, Ohio.
 Merit Co., The, 2125 W. Rice St., Chicago 22, Ill.
 Metalcraft Engineering Co., 3625 N. 48th St., Lincoln, Nebr.
 Metalcraft, Inc., 1619 S. Federal Ave., Mason City, Iowa.
 Metalcraft, Inc., 3036 W. Chicago Ave., Chicago 22, Ill.
 Metal Fabricators, Inc., P. O. Box 3232, Charlotte 3, N. C.
 Metal Industries, Inc., Clearwater, Fla.
 Metalines, Inc., 2500 N. Main, Rockford, Ill.
 Metals & Controls Div., Texas Instruments, Inc., 300 N. Main St., Versailles, Ky.
 Metals Div., Olin Mathieson Chemical Corp., East Alton, Ill.
 Metal & Thermit Corp., Rahway, N. J.
 Metro Metal Mfg. Co., Holt, Mich.

Metropolitan Refining Co., Inc., 30-23 23rd St., Long Island City 1, N. Y.
 Metzger Machine & Engineering Co., Thermoflo Div., 6770 N. 43 St., Milwaukee, Wis.
 Metzner Stove and Furnace Supply Co., 413 Delaware St., Kansas City 3, Mo.
 Meyer & Bro. Co., F., 308 S. Commercial St., Peoria 2, Ill.
 Meyer Furnace Co., 1300 S. Washington St., Peoria 1, Ill.
 Meyer Sheet Metal Machinery Co., 1928 Santa Fe Ave., Los Angeles, Calif.
 Meyer & Sons, Inc., W. W., 8257 Elmwood Ave., Skokie, Ill.
 Miami Products Div. of Crane Co., N. W. 22nd Ave., Miami, Okla.
 Micro Products Co., 20 N. Wacker Dr., Chicago 6, Ill.
 Microtron Corp., P. O. Box 2092, Charlotte 1, N. C.
 Midco Register Corp., 1039 Grand Av., St. Paul 3, Minn.
 Mid-Continent Metal Products Co., 1960 Clybourn Av., Chicago 14, Ill.
 Middlesex Paper Tube Co., Inc., 345 Chelmsford St., Lowell, Mass.
 Mid-States Welder Mfg. Co., 6025 S. Ashland Ave., Chicago 36, Ill.
 Midwest Airmoving Corp., 4498 Beidler Rd., Willoughby, O.
 Midwest Automatic Control Co., 510 Third St., Des Moines 9, Iowa
 Mid West Body & Mfg. Co., Paris, Ill.
 Midwest Heater Co., 3222 Manderson St., Omaha 11, Nebr.
 Midwest Insulations, Inc., Wabash, Ind.
 Midwest Pump Co., P. O. Box 1246, Kansas City 17, Kans.
 Miller-Church Industries, Eaton Rapids, Mich.
 Miller & Doing, 89 Adams St., Brooklyn 1, N. Y.
 Miller Electric Mfg. Co., Inc., 718 S. Bounds St., Appleton, Wis.
 Miller-Harris Instrument Co., 1134 S. First St., Milwaukee 2, Wis.
 Miller-Knuth Mfg. Co., Auburn, Nebr.
 Miller Products Co., 5615 S. Cedar St., Lansing 10, Mich.
 Millers Falls Co., 57 Wells St., Greenfield, Mass.
 Mills Corp., Elmer E., 2930 N. Ashland Ave., Chicago 13, Ill.
 Milo Mfg. Co., 259 N. Broad St., Elizabeth, N. J.
 Milwaukee Brush Mfg. Co., 2236 N. 30th St., Milwaukee, Wis.
 Milwaukee Electric Tool Corp., 5368 W. State St., Milwaukee 8, Wis.
 Mineral Wool Insulations, Div. of Better Industries, Inc., 13361 San Bernardino Ave. (P. O. Box 96), Fontana, Calif.
 Mine Safety Appliances Co., 201 N. Braddock Ave., Pittsburgh 8, Pa.
 Minneapolis-Honeywell Regulator Co., 2747 Fourth Av. S., Minneapolis 8, Minn.
 Minnesota Mining & Mfg. Co., Adhesives, Coatings & Sealers Div., 900 Bush Ave., St. Paul 6, Minn.
 Minnesota Mining and Mfg. Co., Coated Abrasives and Related Products Div., 900 Bush Ave., St. Paul 6, Minn.
 Minn-Kota Foundry & Mfg. Co., P. O. Box 576, Moorhead, Minn.
 Miracle Adhesives Corp., 250 Pettit Ave., Bellmore, L. I., N. Y.
 Mirro Aluminum Co., Manitowoc, Wis.
 Mirror Patented Stove Pipe Co., 63 Park St., Hartford, Conn.
 Misener Mfg. Co., Inc., 202-8 Walton St., Syracuse 2, N. Y.
 Mitchell Metal Works, Mike, Kosciusko, Miss.
 Modern Controls Corp., 24400 Mound Rd., Centerline, Mich.
 Modern Die & Machine Co., 166 Pleasant St., Boston 23, Mass.
 Modern Dust Bag Co. Inc., 132 E. Railroad Ave., West Haverstraw, N. Y.
 Modern Engineering Co., 3411 Pine Blvd., St. Louis 3, Mo.
 Modernheat Cable Corp., P. O. Box 576, Kingsport, Tenn.
 Modern Lighters Inc., 12676 Ten Mile Rd., South Lyon, Mich.
 Modern Mfg. Co. Inc., 680 Davisville Rd., Willow Grove, Pa.
 Modern Metals, Inc., 1307 Ashland, Houston 8, Tex.
 Modine Mfg. Co., 1580 DeKoven Ave., Racine, Wis.
 Modular Plastic Corp., 1635 Westminster, Detroit 11, Mich.
 Moeller Instrument Co., 132nd St. & 89th Av., Richmond Hill 18, N. Y.
 Moeschl-Edwards Corrugating Co., Inc., P. O. Box 1113, Cincinnati, Ohio.
 Molded Products Div., Village Guild, Inc., Portville, N. Y.
 Molloy Machine Corp., 3445 N. Western Ave., Chicago 18, Ill.
 Momar Industries, 4176 W. Montrose Ave., Chicago 41, Ill.
 Monarch Mfg. Works, Inc., 2301 E. Ontario St., Philadelphia 34, Pa.
 Moncrief Furnace Co., P. O. Box 1673, Atlanta 1, Ga.
 Moncrief Lenoir Mfg. Co., 2103 Lyons, Houston, Tex.
 Monitor Controller, 99 Grove St., Rockland, Mass.
 Monogram Industries, Inc., 825 S. Front St., Quincy, Ill.
 Monogram Products Co., Inc., 731 N. 35th St., Philadelphia 4, Pa.
 Monsanto Chemical Co., Plastics Div., 812 Monsanto Ave., Springfield, Mass.
 Montag Inc., 7200 S. E. 92nd Ave., Portland 66, Ore.

Montgomery Chemical Co., Jenkintown, Pa.
 Montgomery Products Co., 238½ Mill St., Lansing 29, Mich.
 Montgomery Specialty Co., Inc., 19 John St., Paterson, N. J.
 Moore Co., 800 S. Missouri, Marceline, Mo.
 Moore, Inc., Goodloe E., 2811 N. Vermilion St., Danville, Ill.
 Morey, Dan, 814-816 S. Robertson Blvd., Los Angeles 35, Calif.
 Mor-Flo Heater Corp., 2176 E. 76th St., Cleveland 3, O.
 Morheat Corp., 5548 Stewart, Cincinnati, O.
 Morrill Motors, Inc., 3685 Northrop, Fort Wayne, Ind.
 Morris Paint & Varnish Co., 27th & Douglas Sts., Omaha, Nebr.
 Morris Sheet Metal Works, 1680 W. Mound St., Columbus 23, O.
 Morrison Products, Inc., 16816 Waterloo Rd., Cleveland 10, O.
 Morrison Steel Products, Inc., 601 Amherst St., Buffalo 7, N. Y.
 Morse-Smith-Morse Co., The, 165 Dexter Ave., Watertown 72, Mass.
 Mortell Co., J. W., Hobbie Av. & Big Four R.R., Kankakee, Ill.
 Mortemp Corp., 1727 First Ave., S., Seattle 4, Wash.
 Mortemp Furnace Div., Witte-Toledo Co., 30 N. Westwood, Toledo 7, O.
 Morton Engineering Services, Paul S., 5134 Meadowlark Lane, Kalamazoo, Mich.
 Morysville Body Works, Inc., 813 S. Reading Ave., Boyertown, Pa.
 Moser & Son Mfg. Co., 227 E. Washington St., Bluffton, Ind.
 Mountain States Equipment Co., 1238 Speer Blvd., Denver 4, Colo.
 Mt. Vernon Furnace & Mfg. Co., P. O. Box 213, Mt. Vernon Ill.
 Muckle Mfg. Co., Owatonna, Minn.
 Mueller Brass Co., 1925 Lapeer Av., Port Huron, Mich.
 Mueller Climatrol, 2005 W. Oklahoma Ave., Box 401, Milwaukee 1, Wis.; 1024 Westminster Ave., Alhambra, Calif.
 Mueller Co., 512 W. Cerro Gordo St., Decatur, Ill.
 Mueller Co., Paul, P. O. Box 150, Springfield, Mo.
 Multifinish Mfg. Co., 26341 W. Eight Mile Rd., Detroit 40, Mich.
 Multiple Corp., 1905 N. Main St., Dayton 5, O.
 Muncie Burner Mfg. Co., 27293 Eureka Rd., Romulus, Mich.
 Muncie Gear Works, P. O. Box 433, Cordele, Ga.
 Mundet Cork Corp., 7101 Tonnelle Ave., North Bergen, N. J.
 Mundt & Sons, Charles, 53 Fairmont Av., Jersey City 4, N. J.
 Mustee & Sons, Inc., E. L., 6911 Lorain Ave., Cleveland 2, O.
 Mutual Liquid Gas & Equipment Co., 17117 S. Broadway, Gardena, Calif.
 Mutual Mfg. Co., 4516 162nd St., Flushing 58, N. Y.
 Mystik Adhesive Products Inc., 4234 W. Drummond Pl., Chicago 39, Ill.

N

Nalco Chemical Co., 6216 W. 66th Pl., Chicago 38, Ill.
 Nat Corp., The, 2710 McGee Trwy., Kansas City, Mo.
 National Airoil Burner Co., Inc., 1336 E. Sedgley Av., Philadelphia 34, Pa.
 National Aniline Div., Allied Chemical & Dye Corp., 261 Madison Ave., New York, N. Y.
 National Appliances, Inc., P. O. Box 10580, Pittsburgh 35, Pa.
 National Copper & Smelting Co., 1862 E. 123rd St., Cleveland 6, O.
 National Cork Co., 1 Engle St., Englewood, N. J.
 National Cylinder Gas Div. of Chemetron Corp., 840 N. Michigan Ave., Chicago 11, Ill.
 National Elbow and Fitting Corp., 48-11 20th Ave., Long Island City, N. Y.
 National Electric Welding Machines Co., 1846 N. Trumbull St., Bay City, Mich.
 National Equipment Co., P. O. Box 122, Denison, Tex.
 National Foundry & Furnace Co., Station "B," P. O. Box 35, Dayton 7, Ohio.
 National Grille & Register Co., 10740 Broadway Ave., Cleveland, O.
 National Gypsum Co., 325 Delaware Ave., Buffalo 2, N. Y.
 National Heater Co., Inc., 2475 Doswell Ave., St. Paul 8, Minn.
 National Lead Co., 111 Broadway, New York 6, N. Y.
 National Lock Co., 1902 Seventh St., Rockford, Ill.
 National Mfg. Corp., 153 Fillmore Av., Tonawanda, N. Y.
 National Metal Fabricators, 2142 S. Sawyer Av., Chicago 23, Ill.
 National Modulation Co., 2720 N. Hy. 61, St. Paul 9, Minn.
 National Pipe Bending Co., 122 River St., New Haven 13, Conn.
 National Pneumatic Co., Inc., 420 Lexington Ave., New York, N. Y.
 National Steel Construction Co., 500 Myrtle St., Seattle, Wash.
 National Steel Construction Co., 1801 Pasadena Ave., Los Angeles 31, Calif.
 National Super Service Co., 1944 N. 13th St., Toledo 2, Ohio.
 National Thermatic Corp., P. O. Box 10699, Houston 8, Tex.

National Welding Equipment Co., 218 Fremont St., San Francisco, Calif.
 Naturalite, Inc., 5115 E. Grand, Dallas, Tex.
 Naugatuck Chemical Div., U. S. Rubber Co., Naugatuck, Conn.
 Nazar Rubber Co., 2727 Avondale, Toledo 7, O.
 Nebel Mfg. Co., P. O. Box 3942, Shaker Sq. Station, Cleveland 20, Ohio.
 Neilson Chemical Co., 2300 Gainsboro, Detroit 20, Mich.
 Nelson Bros. & Strom Co., 1620 Racine St., Racine, Wis.
 Nelson-Harkins Industries Inc., 5301 N. Kedzie, Chicago 25, Ill.
 Nelson Industries, 115 E. Carson St., Pittsburgh, Pa.
 Nelson Products, Herman, American Air Filter Co., Inc., 215 Central Ave., Louisville 8, Ky.
 Nelson Stud Welding Div., Gregory Industries, Inc., Toledo Av. & E. 28th St., Lorain, Ohio.
 Nesbitt, Inc., John J., State Rd. & Rhawn St., Philadelphia 36, Pa.
 New-Aire Blower Co., 25425 John R. St., Madison Heights, Mich.
 New Delphos Mfg. Co., 102 S. Pierce St., Delphos, Ohio.
 New England Carbide Tool Co., Inc., 55 Commercial St., Medford 55, Mass.
 New England Gear Works, Southington, Conn.
 Newmack Corp., 109 Harvard Ave., Elyria, O.
 Newman Electric Motors Inc., 357 Wilson Ave., Newark 5, N. J.
 New Monarch Machine & Stamping Co., 406 S. W. 9th St., Des Moines 9, Iowa.
 New Plastic Corp., 1026 N. Sycamore, Hollywood 38, Calif.
 New York Blower Co., 3155 Shields Av., Chicago 16, Ill.
 Niagara Blower Co., 405 Lexington Av., New York 17, N. Y.
 Niagara Furnace Div., Forest City Foundries Co., 2500 W. 27th St., Cleveland 13, O.
 Niagara Machine & Tool Works, 637-697 Northland Av., Buffalo 11, N. Y.
 Niagara Motors Corp., Dunkirk, N. Y.
 Niagara Products Co., 4311 E. Thomas Rd., Phoenix, Ariz.
 Nibco Inc., Elkhart, Ind.
 Nicework Metal Products Co., Leetsdale, Pa.
 Nichols Wire & Aluminum Co., Davenport, Iowa.
 Nicolet Industries, Inc., 4 Nicolet Ave., Florham Park, N. J.
 Nielsen, Inc., E. V., 575 Hope St., P. O. Box 353, Glenbrook Sta., Stamford, Conn.
 Nixalite Co. of America, 1722-26 First Ave., Rock Island, Ill.
 Nobur Mfg. Co., 6860 Farmdale Ave., North Hollywood, Calif.
 Nooter Corp., 1400 S. Second St., St. Louis 4, Mo.
 Norky Mfg. Corp., P. O. Box 669, Covington, Ky.
 Norma-Hoffmann Bearings Corp., Stamford, Conn.
 Norman Chemical Co., 1630 Carroll Ave., St. Paul 4, Minn.
 Norman Products Co., 1150 Chesapeake Av., Columbus 12, Ohio.
 North American Asbestos Corp., 3210 Board of Trade Bldg., 141 W. Jackson Blvd., Chicago 4, Ill.
 North American Mogul Products Co., Standard Building, Cleveland 13, Ohio.
 North Coast Mfg. Corp., 7200 S. E. 92nd Ave., Portland 66, Ore.
 Northeast Consultants, Inc., 65 Concord St., Framingham, Mass.
 Northern Blower Co., 6409 Barberton Av., Cleveland 2, Ohio.
 Northwest Metal Products, Inc., 55 Spokane St., Seattle 4, Wash.
 Norwalk Air Conditioning Corp., 138 Water St., South Norwalk, Conn.
 Norwood Products Co., Div. A. R. Wood Mfg. Co., Luverne, Minn.
 NuSteel Co., 1714 S. Ashland Ave., Chicago 8, Ill.
 NuTone, Inc., Madison & Red Bank Rd., Cincinnati, Ohio.
 Nu-Way Corp., The, 2416 Fourth Ave., Rock Island, Ill.

O

Oakite Products Inc., 19 Rector St., New York 6, N. Y.
 Obydyke, Inc., Benjamin P., 447 N. Eighth St., Philadelphia 23, Pa.
 Octagon Ventilator Mfg. Co., P. O. Box 1127, Jackson, Tenn.
 Ohio Electric Mfg. Co., Subsidiary of Howell Electric Motors Co., 5910 Maurice Ave., Cleveland 4, Ohio.
 Ohio Foundry & Mfg. Co., Penn R. R. & Slack St., Steubenville, Ohio.
 Ohio Hoist Mfg. Co., 321 S. Beaver St., Lisbon, O.
 Ohio Nut & Bolt Co., 53 First Ave., Berea, O.
 Ohio Paper Co., Miamisburg, Ohio.
 Ohio Register Co., Brecksville, O.
 Ohmer Co., Geo. H., Box 34, Sta. D, Dayton 10, Ohio.
 Ohmlac Paint & Refining Co., 6550 S. Central Av., Chicago 38, Ill.
 Oil Equipment Laboratories, Inc., 456 Bridge St., Elizabeth, N. J.

Oil Equipment Mfg. Corp., 169 Derby Ave., New Haven, Conn.
 Okun Co., Inc., A. L., 109-02 Van Wyck Expwy., So. Ozone Park, N. Y.
 Olin Mathieson Chemical Corp., 460 Park Ave., New York, N. Y.
 Olsen Mfg. Co., The C. A., Filbert St., Elyria, Ohio.
 Omark Industries, Inc., 9701 S.E. McLaughlin Blvd., Portland, Ore.
 Onco Products, Inc., P. O. Box 442, Middletown, O.
 Oneida Heater Co., Inc., Oneida, N. Y.
 O'Neil-Irwin Mfg. Co., 594 Eighth Ave., Lake City, Minn.
 Ormsby-Osterman Co., 3631 Cass Ave., St. Louis 13, Mo.
 Osborne & Co., C. S., 125 Jersey St., Harrison, N. J.
 Osborn Mfg. Co., 3401 Hamilton Av., Cleveland 14, Ohio.
 Ould (U.S.A.) Ltd., John, 519 S. 5th Ave., Mt. Vernon N. Y.
 Overhead Heaters, Inc., 1612 Book Bldg., Detroit 26, Mich.
 Overland Sheet Metal Co., Overland 14, Mo.
 Overly, Lloyd H., 504 Court St., Maryville, Tenn.
 Overly Mfg. Co., Greensburg, Pa.
 Owatonna Tool Co., Owatonna, Minn.
 Owens Co., H., 9300 Venice Blvd., Culver City, Calif.
 Owens-Corning Fiberglas Corp., 717 Fifth Ave., New York 22, N. Y.
 Ozo Sales Corp., 15 Stiles St., New Haven, Conn.

P

PSC Inc., 303 Fifth Ave., New York, N. Y.
 Pacific Air Products Co., 3311 San Fernando Rd., Los Angeles 65, Calif.
 Pacific Lumber Co., 100 Bush St., San Francisco 4, Calif.
 Pacific States Felt & Mfg. Co., Inc., 845 Howard St., San Francisco, Calif.
 Pacific Water Heater Corp., 330 S. Del Mar Ave., San Gabriel, Calif.
 Packard Water Conditioners, Inc., 1720 Prudential Bldg., Jacksonville, Fla.
 Packham Crimper Co., Machine Shop, Mechanics-burgh, O.
 Packless Metal Hose, Inc., 730 S. Columbus Ave., Mt. Vernon, N. Y.
 Pafcon Products Corp., 30240 Lakeland Blvd., Wickliffe, O.
 Page Steel & Wire, Div. American Chain & Cable Co., Inc., P. O. Box 692, Monessen, Pa.
 Paine Co., Fullerton & Westgate Rd., Addison, Ill.
 Palmer Engineering Co., Fan Div., 550 Main Ave., West De Pere, Wis.
 Palmer Industries, Inc., 2235 W. McDowell Rd., Phoenix, Ariz.
 Palmer-Shile Co., 16078 Fullerton, Detroit, Mich.
 Palmer Thermometers, Inc., 2501 Norwood Av., Norwood, Cincinnati 12, Ohio.
 Pal-O-Pak Insulation Co., Inc., Hartland, Wis.
 PAM Co., 1951 N. W. Wilson St., Portland 9, Ore.
 Panelbloc Div., Bettcher Mfg. Co., 3106 W. 61st St., Cleveland, Ohio.
 Pangborn Corp., 560 Pangborn Blvd., Hagerstown, Md.
 Paragon Elec. Co., 1600 - 12th St., Two Rivers, Wis.
 Park City Cornice Works, Inc., 729 Union Av., Bridgeport 7, Conn.
 Parker Fittings & Hose Div., Parker-Hannifin Corp., 17325 Euclid Ave., Cleveland 12, O.
 Parker-Kalon Div. of General American Transportation Corp., Clifton, N. J.
 Parker Rust Proof Co., 2177 E. Milwaukee, Detroit 11, Mich.
 Park Heating Specialties, 6212 Goodrich Ave., Minneapolis 16, Minn.
 Park-Hill Chemical Corp., 29 Bertel Ave., Mt. Vernon, N. Y.
 Patco Mfg. Co., Inc., 231 N. Broad St., Philadelphia, Pa.
 Patlyn Gears & Transmissions Corp., 2456 W. 38th St., Chicago 32, Ill.
 Patrol Valve Co., 2310 Superior Ave., N. E., Cleveland 14, Ohio.
 Patten Co., J. V., 550 DeKalb Av., Sycamore, Ill.
 Paul-Lewis Laboratories, Inc., 4253 N. Port Washington Rd., Milwaukee 12, Wis.
 Payne Beverly Mfg. Co., 9242 Beverly Blvd., Beverly Hills, Calif.
 Payne Co., The, 855 Anaheim-Puente Rd., La Puente, Calif.
 Peck, Stow & Wilcox Co., 1234 Center St., Southington, Conn.
 Pecora, Inc., 300-400 W. Sedgley Ave., Philadelphia 40, Pa.
 Pedrick Tool & Machine Co., 3640 N. Lawrence St., Philadelphia 40, Pa.
 Peer, Inc., 1200 Milton St., Benton Harbor, Mich.
 Peerless Corp., 1853 Ludlow Av., Indianapolis 7, Ind.
 Peerless Electric Div., H. K. Porter Co., Inc., 1401 W. Market St., Warren, O.
 Peerless Heater Co., Boyertown, Pa.
 Peerless Mfg. Div., Dover Corp., 1400 W. Ormsby Ave., Louisville 1, Ky.
 Peerless of America, Inc., 5800 N. Pulaski Rd., Chicago 30, Ill.
 Peerless Products Div., United Cooling Towers, Inc., 1421 E. Washington, North Little Rock, Ark.
 Perna Engineering Corp., Box 8242, Philadelphia 4, Pa.
 Penberthy Mfg. Co., 1242 Holden Ave., Detroit 2, Mich.
 Penco Div., Alan Wood Steel Co., Oaks, Pa.
 Penn Boiler Div., Peabco Industries Inc., Fruitville Rd., Lancaster, Pa.
 Penn Brass & Copper Co., P. O. Box 1838, Erie, Pa.
 Penn Controls, Inc., Goshen, Ind.
 Penn Metal Co., Inc., 40 Central St., Boston 9, Mass.
 Pennsalt Chemicals Corp., Three Penn Center, Philadelphia 2, Pa.
 Penn Supply & Metal Corp., 1831 N. Fifth St., Philadelphia 22, Pa.
 Penn Ventilator Co. Inc., 3254 Goodman St., Philadelphia 40, Pa.
 Pennsylvania-Bradford Appliance Corp., 24th & Ellsworth St., Philadelphia 46, Pa.
 Pennsylvania Engineering Co., 1107-21 N. Howard St., Philadelphia 23, Pa.
 Pennsylvania Flexible Metallic Tubing Co., Box 415, Paoli, Pa.
 Pennsylvania Furnace & Iron Co., 313 Pine St., Warren, Pa.
 Pennsylvania Refining Co., Ohio Div., 2686 Lisbon Rd., Cleveland 4, Ohio.
 Pennsylvania Saw Corp., 810 Broad St., Newark, N. J.
 Pennsylvania Wire Glass Co., 1612 Market St., Philadelphia 3.
 Pentron Electronics Corp., 777 S. Tripp Ave., Chicago 24.
 Perfection Furnace Pipe Co., 602 Broadway, Toledo 4, Ohio.
 Perfection Div., Hupp Corp., 1135 Ivanhoe Rd., Cleveland 10, O.
 Perfex Corp., 500 W. Oklahoma Av., Milwaukee 7, Wis.
 Perkinson, William J., 412-14 N. Wolcott Av., Chicago 22, Ill.
 Permacel, P. O. Box 671, New Brunswick, N. J.
 Permanent Products, Inc., 102 W. Fairfield Ave., St. Paul 1, Minn.
 Permatron Corp., 4840 N. Linder Ave., Chicago, Ill.
 Permutit Co., Div. of Pfaunder Permutit Inc., 50 W. 44th St., New York 36, N. Y.
 Perrygraf Corp., Maywood, Ill.
 Petersen Mfg. Co., DeWitt, Nebr.
 Petro Div., Iron Fireman Mfg. Co., 3170 W. 106 St., Cleveland 11, Ohio.
 Petroleum Chemicals, Inc., P. O. Box 969, Fresno, Calif.
 Petroleum Solvents Corp., 9 E. 45th St., New York 17, N. Y.
 Petrometer Corp., 43-22 Tenth St., Long Island City 1, N. Y.
 Pettit & Sons Co., Inc., W. T., 1670 Keefer Rd., Youngstown 4, O.
 Pfanstiehl Laboratories, Inc., 1219 Glen Rock Ave., Waukegan, Ill.
 Pfeifer Bros., 508 Greenwich St., New York 13, N. Y.
 Phelps Dodge Copper Products Corp., 300 Park Ave., New York 22, N. Y.
 Phelps Mfg. Co., 801 Thomas St., Little Rock, Ark.
 Pheoll Mfg. Co., Inc., 5700 Roosevelt Rd., Chicago 50, Ill.
 Philadelphia Gear Corp., King of Prussia, Pa.
 Philadelphia Hoist Div. of Industrial Enterprises, Inc., Doyle and N. Hamilton Sts., Doylestown, Pa.
 Philadelphia Thermometer Co., 6th & Cayuga Sts., Philadelphia 40, Pa.
 Phillips Cooling Tower Co., Inc., 220 Dupont St., Brooklyn 22, N. Y.
 Phillips Drill Co., U. S. 12 and Liberty Trail, Michigan City, Ind.
 Phoenix Building Products, Inc., 3133 N. Broad St., Philadelphia 32, Pa.
 Photoswitch Div., Electronics Corp. of America, 1 Memorial Dr., Cambridge 42, Mass.
 Pilley Brush Co., S. 33rd, Fort Madison, Iowa.
 Pioneer Co., 3131 San Fernando Rd., Los Angeles 63, Calif.
 Pioneer Sand & Gravel, 901 Fairview, Seattle, Wash.
 Pioneer Tool Co., 905 - 9th St., Racine, Wis.
 Pioneer Water Heater Corp., 3131 San Fernando Rd., Los Angeles 63, Calif.
 Piper Industries Inc., P. O. Box #456, 15930 Common Rd., Roseville, Mich.
 Pittsburgh Chemical Co., 7750 W. 61st Pl., Summit, Ill.
 Pittsburgh Corning Corp., One Gateway Center, Pittsburgh 22, Pa.
 Pittsburgh Lector dryer Div., McGraw-Edison Co., P. O. Box 1766, Pittsburgh 30, Pa.
 Pittsburgh Plate Glass Co., 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.
 Pittsburgh Steel Co., P. O. Box 118, Dept. AA, Pittsburgh 30, Pa.
 Plasteel Products Corp., McAdam Ave., Washington, Pa.

Plastergon Wall Board Co., Philadelphia Av., Buffalo 7, N. Y.
 Plastex Co., 3232 Cleveland Ave., Columbus 24, O.
 Plastic Products Co., 6459 Georgia Av., Detroit 11, Mich.
 Plastics Div., Eastman Chemical Products, Inc., Kingsport, Tenn.
 Plastic Wire & Cable Corp., Jewett City, Conn.
 Plummer Spray Equipment Co., 700 Filmore St., Napoleon, Ohio.
 Pollen Ex. 303 W. Monroe, Chicago, Ill.
 Polymer Corp., 2120 Fairmount Ave., Reading, Pa.
 Pop Rivet Div., United Shoe Machinery Corp., Route 110, Shelton, Conn.
 Portable Electric Tools, Inc., 1200 E. State St., Geneva, Ill.
 Port City Machine & Tool Co., 3590 Airline Rd., Muskegon, Mich.
 Porter-Cable Machine Co., 700 Marcellus St., Syracuse 4, N. Y.
 Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass.
 Potter Co., 1950 Sheridan Rd., North Chicago, Ill.
 Power-Flame Inc., Grandview, Mo.
 Power Line Fan Co., Div. of Chelsea Products Inc., Plainfield, N. J.
 Power-Line Sales, Inc., 17630 W. Seven Mile Rd., Detroit 35, Mich.
 Powers Regulator Co., 3400 Oakton St., Skokie 90, Ill.
 Precision Parts Corp., 400 N. First St., Nashville 7, Tenn.
 Precision Thermometer & Instrument Co., 1434 Brandywine St., Philadelphia 30, Pa.
 Precision Welder Mfg. Co., 2218 W. Lake St., Chicago 12, Ill.
 Preferred Utilities Mfg. Corp., 41 E. 42nd St., New York 17, N. Y.
 Premier Co., 755 Woodlawn Ave., St. Paul 16, Minn.
 Premier Furnace Co., Lock Box 150, Dowagiac, Mich.
 Premium Coal & Oil Co., 5830 Carthage Ave., Cincinnati 12, Ohio.
 Prepo Corp., Edgerton, Wis.
 Presstite Div., American-Marietta Co., 3900 Chouteau St., St. Louis 10, Mo.
 Pressure Airduct Corp., 8130 N. St. Louis Ave., Skokie, Ill.
 Price Bros., Flexicore Div., E. Monument Ave., Dayton, Ohio
 Price & Rutzebeck, P. O. Box 30, Hayward, Calif.
 Pringle & Son, R. A., 508 Catherine St., Walla Walla, Wash.
 Producers & Distributors, Inc., 1321 Hanover Ave., Allentown, Pa.
 Products Research Co., 2919 Empire Ave., Burbank, Calif.
 Profit Products Corp., P. O. Box 465, Glen Ellyn, Ill.
 Progressive Tool & Mfg. Co., 850 Foxon Rd., East Haven, Conn.
 Progressive Welder & Machine Co., 915 Oakland Ave., Pontiac, Mich.
 Propellair Div., Robbins & Myers, Inc., Springfield, O.
 Protective Coatings, Inc., P. O. Box 3985, Strathmoor Station, Detroit 27, Mich.
 Proto Tools, 2209 Santa Fe Ave., Los Angeles 58, Calif.
 Pryne & Co., Inc., N. Towne & Railroad Ave., Pomona, Calif.
 Puhl & Hepper Mfg. Co., Inc., 6400 W. Florissant Av., St. Louis 20, Mo.
 Pullman Vacuum Cleaner Corp., 25 Buick St., Boston 15, Mass.
 Punch Products Corp., 370 Babcock St., Buffalo 6, N. Y.
 Purolator Products, Inc., 970 New Brunswick Ave., Rahway, N. J.
 Pyle-National Co., Multi-Vent Div., 1334 N. Kostner Av., Chicago 51, Ill.
 Pyramid Instrument Corp., 360 Merrick Rd., Lynbrook, L. I., N. Y.
 Pyramid Mouldings, Inc., 5353 W. Armstrong Av., Chicago 46, Ill.
 Pyrolite Products Co., 1221-31 W. 74th St., Cleveland 2, Ohio.

Q

Quaker State Metals Co., Box 1167, Lancaster, Pa.
 Quality Heating Supply Co., 1632 Race St., Cincinnati, O.
 Quass & Sons, Chas. E., 5018 Yukon St., N. W., Canton 8, O.
 Queen Products Div., King-Seeley Corp., 505 Front St., Albert Lea, Minn.
 Quickdraft Corp., Dueber-Hampden Bldg., P. O. Box 87, Canton, O.
 Quick Furnace & Supply Co., 215 Court Av., Des Moines 9, Iowa.
 Quick Plastics, Div. of Quick Industries, Inc., 1602 Cooper St., Jackson, Mich.
 Quiet Automatic Burner Corp., 33-35 Bloomfield Ave., Newark 4, N. J.
 Quiet-Heat Div. Burner Mfg. Corp. of America, 580 Hudson St., New York 14, N.Y.
 Quigley Co., Inc., 415 Madison Ave., New York 17, N. Y.
 Quimby & Co., 70 Oakdale Rd., Chester, N. J.

R

R. B. Enterprises, Inc., 2284 Maxwell, Detroit 14, Mich.
 RCA-Whirlpool, Central Home Air Conditioning Div., Whirlpool Corp., St. Joseph, Mich.
 R.I.N.C.O., P. O. Box 453, Altadena, Calif.
 R & R Metal Products, Inc., 11622 S. Western Ave., Chicago, Ill.
 Racine Hydraulics & Machinery, Inc., 2000 Albert St., Racine, Wis.
 Radex Corp., 2076 Elston Ave., Chicago 14, Ill.
 Radiant Burners, Inc., 325 S. Main St., Lombard, Ill.
 Radiant Electric Heat Co., 1222 S. 18th St., Centerville, Iowa
 Radiant Utilities Corp., 8817 18th Ave., Brooklyn, N. Y.
 Radiation Furnace Corp., Benton Harbor, Mich.
 Radiator Specialty Co., 1700-1900 Dowd Rd., Charlotte 1, N. C.
 Ralph Mfg. Co., Inc., P. O. Box 188, Wadsworth, Ohio.
 Ramco Manufacturing and Engineering, 5413 N. E. Columbia Blvd., Portland 18, Ore.
 Ramset Fastening System, Winchester-Western Div., Olin Mathieson Chemical Corp., 289 Winchester Ave., New Haven 4, Conn.
 Ramtite Co., Div. S. Obermayer Co., 2563 W. 18th St., Chicago 8, Ill.
 Ran Appliance Corp., D. P., 1202 N. Alameda, Compton, Calif.
 Ranco Inc., 601 W. 5th Ave., Columbus 1, Ohio.
 Randall Graphite Bearings, Inc., Greenlawn & Lake Sts., Lima, Ohio.
 Randolph-Page, Inc., 175 Fifth Ave., New York 10, N. Y.
 Ransburg Electro-Coating Corp., P. O. Box 23122, Indianapolis 23, Ind.
 Ransome Torch & Burner Co., 4030 Hollis St., Emeryville 8, Calif.
 Rapidesign, Inc., P. O. Box 592, Glendale, Calif.
 Rawlplug Co., Inc., The, 200 Petersville Rd., New Rochelle, N. Y.
 Raybestos-Manhattan, Inc., 61 Willett St., Passaic, N. J.
 Rayfield-Staffco Burner Co., 1324 Princeton Blvd., Elkhart, Ind.
 Ray Oil Burner Co., 1301 San Jose Av., San Francisco 12, Calif.
 Raytheon Co., Commercial Apparatus & Systems Div., 1415 Boston Providence Tpke., Norwood, Mass.
 Reading Body Works, Inc., 420 Gregg Ave., Reading, Pa.
 Reading Crane & Hoist Corp., 2100 Adams St., Reading, Pa.
 Recold Corp., 7250 E. Slauson Ave., Los Angeles 22, Calif.
 Redmond Co., Inc., Subsidiary of Controls Co. of America, Owosso, Mich.
 Redmondson Corp., 630 Loucks Mill Rd., York, Pa.
 Red Wing Oil Burner Co., Inc., 12 Forest St., Medford 55, Mass.
 Reed Equipment Div., The Webb Corp., Box 549, Webb City, Mo.
 Reed Unit-Fans, Inc., 501 N. St. Patrick St., New Orleans 19, La.
 Rees Blow Pipe Mfg. Co., 2929 Fifth St., Berkeley 10, Calif.
 Reeves Steel & Mfg. Co., Div. of Empire-Reeves Steel Corp., Lock Box 672, Dover, Ohio.
 Reflectal Corp., Subsidiary Borg-Warner Corp., 200 S. Michigan Ave., Chicago 4, Ill.
 Refractory & Insulation Corp., 120 Wall St., New York 5, N. Y.
 Refrigeration Appliances, Inc., 903 Lake St., Chicago 7, Ill.
 Refrigeration Research, Inc., 525 N. 5th St., Brighton, Mich.
 Rega Mfg. Co., 79 Mt. Hope Av., Rochester 20, N. Y.
 Register & Grille Mfg. Co., Inc., P. O. Box 113, Brooklyn 22, N. Y.
 Rehm-Schiess Corp., 119-25 164 St., Jamaica 34, N. Y.
 Reichhold Chemicals, Inc., 525 N. Broadway, White Plains, N. Y.
 Reif-Rexoil, Inc., 37-41 Carroll St., Buffalo 3, N. Y.
 Reilly Tar & Chemical Corp., 1615 Merchants Bank Bldg., Indianapolis 4, Ind.
 Reiner & Campbell Co., Inc., 19 Euclid Ave. at Lockwood St., Box 5035, Newark 5, N. J.
 Reitman Mfg. Co., 10319 Pearmain, Oakland, Calif.
 Reliable Equipment & Supply Co., P. O. Box 366, Berkeley Heights, N. J.
 Reliable Mach. & Mfg. Co., Inc., 415 H Ave., N. W., Cedar Rapids, Iowa.
 Reliance Automatic Lighting Co., 1929 Mead St., Racine, Wis.
 Reliance Electric & Engineering Co., 24701 Euclid Ave., Cleveland 17, O.
 Reliance Refrigerating Machine Co., 3401 N. Kedzie Ave., Chicago, Ill.
 Relton Corp., 99 N. Lotus Ave., P. O. Box 5546, Pasadena, Calif.
 Remco, Inc., Zelienople, Pa.
 Remington Air Conditioning Div., Remington Corp., Auburn, N. Y.
 Remington Arms Co., Inc., 939 Barnum Ave., Bridgeport 2, Conn.
 Rempe Co., 340 N. Sacramento Ave., Chicago 12, Ill.
 Rentip, Inc., Route 4, Osborn Rd., Knoxville, Tenn.

Republic Heater Corp., 2231 Randolph St., Huntington Park, Calif.
 Republic Products Co., 7420 State Rd., Philadelphia 36, Pa.
 Republic Rubber Div., Lee Rubber & Tire Corp., Youngstown 1, Ohio.
 Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.
 Republic Steel Corp., Alloy Steel Div., Massillon, O.
 Res-Dent-Air Div., Peden Equipment Co., 4512 Mt. Vernon, Houston, Tex.
 Research Appliance Co., Rt. 8 at Craighead Rd., Box 307, Allison Park, Pa.
 Research Products Corp., 1015 E. Washington Av., Madison, Wis.
 Resolite Corp., Zelienople, Pa.
 Reuland Electric Co., 3001 W. Mission Rd., Alhambra, Calif.
 Reuter Mfg. Co., N88-W 16761 Appleton Ave., P. O. Box 275, Menomonee Falls, Wis.
 Revco, Inc., Deerfield, Mich.
 Revcor, Inc., 251 Edwards St., Carpentersville, Ill.
 Revere Copper and Brass, Inc., 230 Park Av., New York 17, N.Y.
 Revere Copper & Brass Inc., Foam Div., 196 Diamond St., Brooklyn 22, N. Y.
 Revere Products, Inc., 9145 E. Forest Av., Detroit 13, Mich.
 Rexarc, Inc., Sight Feed Generator Div., P. O. Box 38, West Alexandria, O.
 Rex Metal-Craft, Inc., 1717 Gent St., Indianapolis, Ind.
 Rex Roto Corp., 1109 Decker Rd., Walled Lake, Mich.
 Reynolds Electric Co., 3000 River Rd., River Grove, Ill.
 Reynolds Gas Regulator Co., 1416 Lincoln St., Anderson, Ind.
 Reynolds Metals Co., Richmond 18, Va.
 Reynolds Ventilator Mfg. Corp., 7530 N. Sheridan Rd., Chicago 26, Ill.
 Reznor Mfg. Co., 6 Union St., Mercer, Pa.
 Rheem Mfg. Co., 7600 S. Kedzie Ave., Chicago 52, Ill.
 Rhoads Engineering Corp., 9063 Washington Blvd., Culver City, Calif.
 Rhodes, Inc., M. H., 30 Bartholomew Av., Hartford 6, Conn.
 Richards-Wilcox Mfg. Co., 275 Third St., Aurora, Ill.
 Rich Fan Mfg. Co., Phil, 2900 Caroline St., Houston 4, Tex.
 Richkraft Co., The, 510 N. Dearborn St., Chicago 10, Ill.
 Richline Co., Inc., 1531 E. Franklin Ave., Minneapolis, Minn.
 Richmond Plumbing Fixtures Div., Rheem Mfg. Co., 16 Pearl St., Metuchen, N. J.
 Riffin Metal Products, Box 267, Kankakee, Ill.
 Rigidbilt, Inc., 9240 Belmont Ave., Franklin Park, Ill.
 Rigidized Metals Corp., 699-P Ohio St., Buffalo 3, N. Y.
 Rinehart Inc., Richmond, Ind.
 Ritter Pattern & Casting Co., Inc., 120 Walker St., New York 13, N. Y.
 Rittling Corp., Rittling Bldg., Buffalo 3, N. Y.
 Ro-An Heat Reclaimer Corp., 16 S. Ketcham Ave., Amityville, N. Y.
 Robbins & Myers, Inc., 1345 Lagonda Av., Springfield 99, Ohio.
 Robertson Inc., 1539 E. 103rd St., Seattle 55, Wash.
 Robert Mfg. Co., 9035 Venice Blvd., Los Angeles 34, Calif.
 Roberts-Gordon Appliance Co., 44 Central Ave., Buffalo 6, N. Y.
 Robertshaw-Fulton Controls Co., 911 E. Broad St., Richmond 19, Va.
 Robertson Co., H. H., 2400 Farmers Bank Bldg., Pittsburgh 22, Pa.
 Robertson Machine and Foundry, 56 Rano St., Buffalo, N. Y.
 Robinair Mfg. Corp., Sub. Kent-Moore Organization, Inc., 1224 South East Ave., Montpelier, O.
 Robinson Clay Product Co., 65 W. State St., Akron 9, O.
 Robinson Insulation Co., Box 1419, Great Falls, Mont.
 Robinson Technical Products, Inc., Teterboro, N. J.
 Robinson Tube Fabricating Co., 525 E. 6th St., Conway, Ark.
 Robinson Ventilating Co., 283 Henderson St., Zelienople, Pa.
 Rochester Mfg. Co., Inc., 66 Rockwood St., Rochester 10, N. Y.
 Rockford Brass Works, 700 S. Main St., Rockford, Ill.
 Rockford Screw Products Co., 2501 Ninth St., Rockford, Ill.
 Rock Island Register Co., 2435 Fifth Ave., Rock Island, Ill.
 Rockwell Co., W. S., 2700 Eliot St., Fairfield, Conn.
 Rockwell Mfg. Co., Meter and Valve Div., 400 N. Lexington Ave., Pittsburgh 8, Pa.
 Roessing Mfg. Co., 1616 Noble St., Sharpsburg, Pittsburgh 15, Pa.
 Rohm & Haas Co., 222 W. Washington St., Philadelphia, Pa.
 Rolas Products Corp., 156 Avon Ave., Newark 8, N. J.
 Rome-Turney Radiator Co., Canal St., Rome, N. Y.
 Romla Co., 13101 S. Main St., Los Angeles 61, Calif.
 Roofing & Supply Co., 1409-15 Fort St., Chattanooga, Tenn.
 Roper Corp., Geo. D., Blackhawk Park Av., Rockford, Ill.
 Rosebraugh Co., W. W., 680 17th St., S. E., P. O. Box 2008, Salem, Ore.
 Rose Mfg. Co., 2700 W. Barberry Pl., Denver 4, Colo.
 Roscoe Mfg. Co., 413 Fairview Ave. N., Seattle, Wash.

Ross Sprinkler Co., 4333 Temple City Blvd., Temple City, Calif.
 Rotary Concrete Drill Co., 650 S. Arroyo Parkway, Pasadena 2, Calif.
 Roth Co., Roy E., Turbine Pump Div., Rock Island, Ill.
 Rotherm Engineering Co., Inc., 7280 W. Devon Ave., Chicago 31, Ill.
 RotoMetals, 980 Harrison St., San Francisco 7, Calif.
 Rotor Tool Co., 26300 Lakeland Blvd., Cleveland 32, Ohio.
 Roto-Table Div. of the Fogarty Mfg. Co., 2605 E. Third St., Dayton 3, O.
 Round Oak Div., Peerless Corp., Dowagiac, Mich.
 Round Tube and Cores Co., 811 N. Peoria St., Chicago 22, Ill.
 Royal-Apex Mfg. Co., Inc., 1389-97 Atlantic Ave., Brooklyn 16, N. Y.
 Royal Mfg. Co., 622 Washington Square Bldg., Royal Oak, Mich.
 Royersford Foundry & Machine Co., 55 Main St., Royersford, Pa.
 Royson Engineering, Hatboro, Pa.
 Rubatex Div., Great American Industries, Inc., Bedford, Va.
 Rubber and Asbestos Corp., 225 Belleville Ave., Bloomfield, N. J.
 Ruberoid Co., 500 Fifth Av., New York 36, N. Y.
 Ruby Chemical Co., 68 McDowell St., Columbus 16, Ohio.
 Ruemelin Mfg. Co., 3860 N. Palmer St., Milwaukee 12, Wis.
 Ruoff & Sons, Inc., 9 Chestnut Ave., Bellmawr, N. J.
 Rusco, Div. of F. C. Russell Co., P. O. Box 387, Pandora, O.
 Russell, Burdall & Ward Bolt & Nut Co., 100 Midland Ave., Port Chester, N. Y.
 Russell Coil Co., 8403 S. Allport Ave., Santa Fe Springs, Calif.
 Rusticide Products Co., 3125 Perkins Ave., Cleveland 14, O.
 Rust-Oleum Corp., 2425 Oakton St., Evanston, Ill.
 Ruthman Machinery Co., 1809 Reading St., Cincinnati 2, O.
 Rutland Fire Clay Co., 91 Curtis Av., Rutland, Vt.
 Ruud Mfg. Co., 2025 Factory St., Kalamazoo, Mich.
 Rybolt Heater Co., 615 Miller St., Box 590, Ashland, Ohio.
 Ryerson & Son, Inc., Joseph T., 2558 W. 16th St., Chicago 80, Ill.
 Rymco, Inc., P. O. Box 175, Grosse Ile, Mich.
 Ryniker Steel Products Co., Northern Pacific Industrial Site, Billings, Mont.

S

S & C Mfg. Co., 3533 Cardiff, Cincinnati 9, O.
 S-K Co., Inc., Admiral Wilson Blvd., Camden, N. J.
 SKF Industries, Inc., Front St. and Erie Av., Philadelphia 32, Pa.
 S.O.S. Products Co., Inc., 346 Cumberland St., Brooklyn 38, N. Y.
 Safeguard Corp., Lansdale, Pa.
 Safety Electrical Equipment Corp., 1187 Dixwell Ave., New Haven 14, Conn.
 Safety Nail Driver Corp., 70 Rosalie Ave., Clifton, N. J.
 Safety Stack Heater Co., 93 Rockwell Place, Brooklyn 17, N. Y.
 Saffell Air Conditioning Co., 5800 S. Central, Phoenix, Ariz.
 St. Charles Mfg. Co., St. Charles, Ill.
 St. Clair Foundry Corp., Beech & Wilson Sts., Centralia, Ill.
 St. Clair Metal Products Co., 6700 Central Ave., Cleveland, O.
 St. Clair Rubber Co., 440 E. Jefferson Ave., Detroit 26, Mich.
 St. Louis Tool Co., 6100 Prescott St., St. Louis 15, Mo.
 Sair Corp., 9802 Euclid Ave., Cleveland 6, O.
 Sampson Scientific Corp., 2830 W. Lake St., Chicago 12, Ill.
 Samson Drill Co., 443 E. Tremont Ave., Bronx 57, N. Y.
 Samuel Stamping & Enameling Co., Manufacturers Rd., Chattanooga, Tenn.
 San Angelo Foundry & Machine Co., Box 1152, 1000 Upton St., San Angelo, Tex.
 Sandberg Mfg. Co., 3850 N. W. Yeon Av., Portland 10, Ore.
 Sanders, J. A., Box 123, Fulton, N. Y.
 Sands Mfg. Co., 3407 Sweeney, Cleveland 27, O.
 Saran Lined Pipe Co., 2415 Burdette Ave., Ferndale 20, Mich.
 Sarco Co., Inc., 635 Madison Ave., New York 2, N. Y.
 Sarcotherm Controls, Inc., Empire State Bldg., New York 1.
 Sargent & Co., Hand Tool Div., New Haven, Conn.
 Sargent EnginAiring Co., 1375 E. 45th St., Cleveland, O.
 Sauereisen Cements Co., 1045 N. Canal St., Pittsburgh 15, Pa.
 Savage Co., W. J., 912 Clinch Ave., S. W., Knoxville 16, Tenn.
 Savannah Chimney Mfg., Inc., P. O. Box 1381, Savannah, Ga.
 Saw-Mor Tool & Blade Co., Great Lakes Bldg., Wacker Dr. at Lake St., Chicago 6, Ill.
 Schaefer Brush Mfg. Co., 115-117 W. Walker, Milwaukee 4, Wis.
 Schaefer Chemical Products Co., 3000 Carrollton Rd., Saginaw, Mich.
 Schaul Mfg. Co., 6300 Roland Ave., Cleveland 27, O.
 Schecter Bros. Co., N. W. Cor. Hancock & Huntington Sts., Philadelphia 33, Pa.
 Schild Mfg. Co., P. O. Box 412, Beaver Dam, Wis.

Schiller Mfg. Co., 409 E. Jefferson, Detroit 26, Mich.
 Schill Mfg. Co., 302 Mansfield St., Crestline, Ohio.
 Schneible Co., Claude B., 2827 25th St., Detroit 16, Mich.
 Schoenbourg, Inc., August, 1267 W. Laurelton Pkwy., West Englewood, N. J.
 Schott Metal Products Co., 2225 Lee Rd., Akron 6, O.
 Schutte and Koerting Co., Cornwells Heights, Bucks County, Pa.
 Schwab Furnace Co., 332 W. Florida St., Milwaukee 4, Wis.
 Schwab Safe Co., East Main at Earl Ave., Lafayette, Ind.
 Sclaky Bros., Inc., 4915 W. 67th St., Chicago 38, Ill.
 Scotco Products Co., Beverly, Mass.
 Scott, Inc., H. H., 111 Powder Mill Rd., Maynard, Mass.
 Scott Paper Co., Chester, Pa.
 Scovill Mfg. Co., P. O. Box 1820, Waterbury 20, Conn.
 Sette Products Co., 174 Green St., Melrose, Mass.
 Seamlex Co., Inc., 41-23 24th St., Long Island City 1, N. Y.
 Seaboard Products Corp., Electric Heating Div., 191 Frelinghuysen Ave., Newark, N. J.
 Season-all, Route 119 South, Indiana, Pa.
 Sebrell Corp., J. B., 300 S. Los Angeles St., Los Angeles 13, Calif.
 Seco-Lite Mfg. Co., 4916 Easton Ave., St. Louis 13, Mo.
 Seelye Craftsmen, The, 984 Central Ave., Minneapolis, Minn.
 Seiberling Rubber Co., Plastics Div., Newcomerstown, O.
 Senrac, Applegate Rd., Madison, Wis.
 Sequoia Mfg. Co., 1090 Brittan Ave., San Carlos, Calif.
 Service Machine Co., Inc., 466 Miller St., Elizabeth 4, N. J.
 Service and Supply Co., 914 W. Wisconsin Ave., Appleton, Wis.
 Seton Name Plate Co., Inc., 50 Fitch St., New Haven 15, Conn.
 Sette Products Co., 1241 High St., Oakland 1, Calif.
 Severson Mfg. & Supply Co., 3425 W. Clybourn, Milwaukee 8, Wis.
 Sexauer Mfg. Co., Inc., J. A., 2503-05 Third Ave., New York 51, N. Y.
 Shafer Bearing Div., Chain Belt Co., 801 Burlington Ave., Downers Grove, Ill.
 Shakeproof Div., Illinois Tool Wks., St. Charles Rd., Elgin, Ill.
 Shallcross Controls, Inc., P. O. Box 497, Markesan, Wis.
 Sharon Steel Corp., Drawer 537, Sharon, Pa.
 Sheet Metal Mfg. Co., 7 E. Henry St., Youngstown 2, O.
 Sheet Metal Mfg. Co., Inc., 953 Myrtle Ave., Brooklyn 6, N. Y.
 Sheet Metal Specialty Div., Follansbee Steel Corp., P. O. Box 567, Follansbee, W. Va.
 Shell Oil Co., 50 W. 50th St., New York 20, N. Y.
 Shelton Co., New Haven, Conn.
 Shenango Refractories Co., P. O. Box 120, New Castle, Pa.
 Shepard, Herman, P. O. Box 23, Newton Upper Falls 64, Mass.
 Shepard Niles Crane & Hoist Corp., 1410 Schuyler Av., Montour Falls, N. Y.
 Sheridan-Gray, Inc., 24701 Crenshaw Blvd., Torrance, Calif.
 Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
 Shielded Stud Welding Co., 2043 Gaylord St., Long Beach 13, Calif.
 Shoemaker Mfg. Co., 3709 - 12th St., N. E., Seattle, Wash.
 Shuford Mills Inc., Hickory, N. C.
 Siebring Mfg. Co., George, Iowa.
 Siegler Corp., 900 Wilson Ave., Centralia, Ill.
 Signet Controls, 3205 S. E. 13th Ave., Portland 2, Ore.
 Silence, Inc., 130 Main St., Farmingdale, N. Y.
 Silent Automatic Products, 3170 W. 106 St., Cleveland 11, O.
 Silent-Flame Products, Blue Point Electronics Corp., Blue Point, L. I., N. Y.
 Silent Glow Oil Burner Co., 850 Windsor St., Hartford, Conn.
 Silent Sioux Corp., Orange City, Iowa.
 Silvercote Products, Inc., 161 E. Erie St., Chicago 11, Ill.
 Silver Creek Precision Corp., Silver Creek, N. Y.
 Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.
 Simplex Ceiling Corp., 552 W. 52 St., New York, N. Y.
 Simplex Distributors, Inc., 239 Waverly Ave., Brooklyn, N. Y.
 Simplex Mfg. Co., 200 N. Main St., Fond du Lac, Wis.
 Simplex Oil Heating Corp., 7901 Oxford Av., Philadelphia 11, Pa.
 Simpson Co., 1060 E. 11th St., Oakland 6, Calif.
 Simpson Electric Co., 5200 W. Kinzie St., Chicago 44, Ill.
 Sioux Steel Co., Sioux Falls, S. Dak.
 Sipe & Co., James B., 118 Vanadium Rd., Pittsburgh 16, Pa.
 Skil Corp., 3033 Elston Av., Chicago 30, Ill.
 Skinner Electric Valve Div., The Skinner Chuck Co., 95 Edgewood Ave., New Britain, Conn.
 Skinner Heating & Ventilating Co. Div. Young Sales Corp., 1954 N. 9th St., St. Louis 6, Mo.
 Skuttle Mfg. Co., Milford, Mich.
 Slip-On Co., The, 436 Magnolia, N. W., Atlanta, Ga.
 Slip-On, Inc., 158 Edwards Blvd., Long Beach, N. Y.
 Sloane Mfg. Co., 7606 N. Clybourn Ave., Sun Valley, Calif.
 Sly Mfg. Co., W. W., 4700 Train Ave., Cleveland 1, O.
 Small Motors, Inc., 2076 Elston Av., Chicago 14, Ill.
 Smith Chemical Co., E. W., 15020 E. Proctor Ave., La Puente, Calif.
 Smith Co., J. B., 3327 B St., Philadelphia 34, Pa.
 Smith Corp., A. O., Motor Div., 531 N. 4th St., Tipp City, O.
 Smith Corp., A. O., Permaglas Div., Kankakee, Ill.
 Smith Filter Corp., 2nd Av., Moline, Ill.
 Smith, Inc., E. B., 1311 Robin Rd., St. Petersburg, Fla.
 Smith Mfg. Co., R. E. 1122-30 Elizabeth, P. O. Box 78, Waukegan, Ill.
 Smith Welding Equipment Corp., 2619 Fourth St., S. E., Minneapolis 14, Minn.
 Smooth-on Mfg. Co., 568-574 Communipaw Av., Jersey City 4, N. J.
 Snap-On Mfg. Co., 1028 Blue Island Av., Chicago, Ill.
 Snap-on Tools Corp., Kenosha, Wis.
 Snappy Inc., 620 W. Main St., Detroit Lakes, Minn.
 Solarflo Co., 411 S. Vermont Ave., Glendora, Calif.
 Solfo Paint Mfg. Co., 821 Pennington Ave., Trenton, N. J.
 Somers Corp., 275 Iron St., Detroit 7, Mich.
 Sonneborn Sons, Inc., L., 404 Fourth Ave., New York 16, N. Y.
 Sonner Burner Co., 412-420 E. 6th Ave., Winfield, Kans.
 Sonobond Corp., Subsidiary of Aeroprojects, Inc., 310 E. Rose-dale Ave., West Chester, Pa.
 Sonoco Products Co., Construction Products Div., Hartsville, S. C.
 Soreng Div., Controls Co. of America, 9655 Soreng Ave., Schiller Park, Ill.
 Soss Mfg. Co., 21777 Hoover Rd., Detroit 13, Mich.
 Sound Reduction Corp., 133 Pitkin Ave., East Hartford, Conn.
 South Bend Air Products, Inc., 415 S. St. Joseph St., South Bend 1, Ind.
 Southbridge Roofing Co., Inc., Dudley Road, Southbridge, Mass.
 Southco Div., South Chester Corp., Lester, Pa.
 Southern Heater Corp., 133 E. Palmer Ave., Compton, Calif.
 Southern Mist Products Co., 945 Pitner Ave., Evanston, Ill.
 Southern Name Plate Shop, 4601 LaFayette St., New Orleans 22, La.
 Southern Screw Co., P. O. Box 1360, Statesville, N. C.
 Souther Steel and Aluminum Co., 1952 Kienlen Ave., St. Louis 33, Mo.
 Southport Paint Co., Div. Wesson Oil & Snowdrift Co., Inc., Savannah, Ga.
 Southwest Mfg. Co., Box 151, Aurora, Mo.
 Southwest Plastic Pipe Co., P. O. Box 117, Mineral Wells, Tex.
 Sparkler Mfg. Co., 101 Cartwright Rd., Conroe, Texas.
 Spartan Electric Radiator Corp., 52-55 74 St., Maspeth 78, N. Y.
 Spartan Saw Works, Inc., Springfield 7, Mass.
 Spear Stove & Heater Co., James, 1000 Diamond St., Philadelphia 22, Pa.
 Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
 Speedway Mfg. Co., Div. of Thor Power Tool Co., 1421 Barns-dale, LaGrange Park, Ill.
 Spencer Turbine Co., 486 New Park Av., Hartford 6, Conn.
 Sperti Faraday, Inc., Adrian, Mich.
 Spickler Co., Inc., R. D., 620 Fayette Ave., Mamaroneck, N. Y.
 Spincraft, Inc., 4158-M W. State St., Milwaukee 8, Wis.
 Spiro U.S.A., Inc., 20 N. Wacker Dr., Chicago 6, Ill.
 Sporlan Valve Co., 7525 Sussex Av., St. Louis 17, Mo.
 Sprague Products Co., North Adams, Mass.
 Spray Engineering Co., 100 Cambridge St., Burlington, Mass.
 Spraying Systems Co., 3201 Randolph St., Bellwood, Ill.
 Sprayo-Flake Co., 2727 Irving Park Rd., Chicago 18, Ill.
 Sprayon Products, Inc., 2075 E. 65th, Cleveland, O.
 Spun Steel Div., Automatic Steel Products, Inc., 1201 Camden Av., S. W., Canton 6, Ohio.
 Square D Co., Industrial Controller Div., 4041 N. Richards St., Milwaukee 12, Wis.
 Stahl Metal Products, 4750 W. 160th St., Cleveland, O.
 Stamco Inc., New Bremen, Ohio.
 Stanat Mfg. Co., Inc., 434 Shames Dr., Westbury, L. I., N. Y.
 Standard Asbestos Mfg. Co., 860 W. Evergreen Ave., Chicago 22, Ill.
 Standard Automatic Oil Burner Co., 21-23 Broad St., Newark 4, N. J.
 Standard Electric Mfg. Co., Inc., West Berlin, N. J.
 Standard Fuel Engineering Co., 667 Post Av., S., Detroit 17, Mich.
 Standard Metal Fabricating Co., 7311 Jones St., P. O. Box 1312, Omaha, Nebr.
 Standard Power Groove Machine Corp., 23 Leonard, New York 13, N. Y.
 Standard Refrigeration Co., 3555 Fillmore St., Chicago 24, Ill.
 Standard Stamping & Perforating Co., 3137 W. 49th Pl., Chicago, Ill.
 Stanley Electric Tools Div. of The Stanley Works, 480 Myrtle St., New Britain, Conn.
 Stanthony Corp., 5341 San Fernando Rd., W., Los Angeles 39, Calif.
 Starbuck & Sons, Inc., R. M., P. O. Box 1318, Hartford 1, Conn.

Star Expansion Bolt Co., 142 Liberty St., New York 6, N. Y.
 Star Expansion Industries Corp., Mountainville, N. Y.
 Stark & Co., H. W., 5668 Geddes Rd., Ann Arbor, Mich.
 Starline Co., 119 Franklin St., Dayton 2, Ohio
 Star Stainless Screw Co., 195 Union Ave., Paterson, N. J.
 Star Woolen Co., Cohoes, N. Y.
 State Stove and Mfg. Co., 509 - 25th Ave., N., Nashville, Tenn.
 Steam-O-Matic Corp., 16th & Lamie St., Sedalia, Mo.
 Stearns Co., N. C., P. O. Box 1234, Shreveport, La.
 Stearns Lumber Co., A. T., 98 Taylor St., Boston, Mass.
 Steel City Furnace Corp., Hoeveler and Railroad Sts., Springdale, Pa.
 Steelcraft Mfg. Co., 9017 Blue Ash Rd., Rossmoyne, O.
 Steele Mfg. Co., 445 Winchester Ave., Ashland, Ky.
 Steel Products Supply Co., 751 Roosevelt Rd., Glen Ellyn, Ill.
 Steel & Tubes Div., Republic Steel Corp., 224 E. 131st St., Cleveland 8, Ohio.
 Steffens-Amberg Co., 262 Morris Av., Newark 3, N. J.
 Steinen Mfg. Co., Wm., 43 Bruen St., Newark 5, N. J.
 Steinhurst & Sons, Inc., Emil, Utica, N. Y.
 Stephens-Adamson Mfg. Co., Ridgeway Av., Aurora, Ill.
 Sterling Electric Motors, Inc., 5401 Telegraph Rd., Los Angeles 22, Calif.
 Sterling Foundry Co., P. O. Box 457, Sterling, Ill.
 Stern Bros. Plumbing Supply Co., 2323 E. 67th St., Cleveland, O.
 Stewart-Hall Chemical Corp., 222 Washington St., Mt. Vernon, N. Y.
 Stewart Industries, Inc., 320 E. St. Joseph St., Indianapolis 2, Ind.
 Stewart-Warner Corp., Heating and Air Conditioning Div., Lebanon, Ind.
 Stic-Klip Mfg. Co., Inc., 114 Regent St., Cambridge 40, Mass.
 Stiles Karlsonite Corp., 1550 Grand Ave., Waukegan, Ill.
 Stocker & Son Inc., H. G., Osceola, Wis.
 Stoddard Industries, Inc., 3383 E. Layton Ave., Cudahy, Wis.
 Stokar-Ola Mfg. Co., 2400 S. Adams St., Peoria, Ill.
 Stortz & Son, Inc., John, 210 Vine St., Philadelphia 6, Pa.
 Stossel & Sons Co., Carl, Front Royal, Va.
 Stow Mfg. Co., 445 State St., Binghamton, N. Y.
 Straitsville Brick Co., P. O. Box 381, New Straitsville, O.
 Strand Flexible Shaft, Inc., N. A., 601 S. Washtenaw Ave., Chicago 12, Ill.
 StranSteel Corp. Div., National Steel Corp., Tecumseh Dr., Ecorse, Mich.
 Stratton & Terstegge Co., P. O. Box 1589, Louisville 1, Ky.
 Strutta-Lung Co., 36407 Euclid Ave., Willoughby, O.
 Structoglas Inc., Subsidiary Brookpark, Inc., 11701 Shaker Blvd., Cleveland 20, O.
 Stueck, Inc., W. Whitney, Ferry St., Old Saybrook, Conn.
 Suburban Appliance Co., P. O. Box 551, Morristown, N. J.
 Sudbury Laboratory, Sudbury, Mass.
 Sundial Electric Co., 130-15 89th Rd., Richmond Hill 18, N. Y.
 Sundstrand Engineering Co., 2416 4th Ave., Rock Island, Ill.
 Sundstrand Hydraulics, 2210 Harrison Ave., Rockford, Ill.
 Sundstrom Pressed Steel, 8030 S. Chicago Ave., Chicago, Ill.
 Sun-Fire Stoker Corp., 802 E. Eighth St., New Albany, Ind.
 Sunny Sue Burner Co., 117 Bertram Pl., Syracuse, N. Y.
 Sun-Ray Burner Mfg. Corp., 139-24 Queens Blvd., Jamaica 35, N. Y.
 Sun-Tron Corp., 7435 Wilson Ave., Chicago 31, Ill.
 Sunwarm, Inc., P. O. Box 263, Kingsport, Tenn.
 Superbo Mfg. Co., 4090 N. Mission Rd., Los Angeles 33, Calif.
 Super Electric Products Corp., 1057 Summit Ave., Jersey City, N. J.
 Superior Flux & Mfg. Co., 1536 St. Clair Ave., Cleveland 14, O.
 Superior Metal Fabricating Co., Pleasant Ave., Niles, Ohio.
 Superior Pneumatic & Mfg., Inc., 13800 Enterprise Ave., Cleveland 35, O.
 Superior Safety Furnace Pipe Co., 5820 Forsythe Av., Detroit 2, Mich.
 Superior Valve and Fittings Co., 1509 W. Liberty Ave., Pittsburgh 26, Pa.
 Super Radiator Corp., 6714 Walker St., Minneapolis 26, Minn.
 Super Steel Products Co., 1244 N. 4th St., Milwaukee 12, Wis.
 Supreme Electric Products Corp., 194 Vassar St., Rochester 7, N. Y.
 Sure Comfort Furnace Co., 900 S. Des Plaines Ave., Forest Park, Ill.
 Surface Chemicals Inc., 1101 Thompson Ave., McKees Rocks, Pa.
 Sutton Corp., O. A., 1812 W. Second St., Wichita 2, Kans.
 Swaine Mfg. Co., Fred J., 1300 N. Seventh St., St. Louis 6, Mo.
 Swan Humidifier Co., Inc., 149 Bath St., Ballston Spa, N. Y.
 Swan Mfg. Co., 1801 W. 26th St., Vancouver, Wash.
 Swartwout Fabricators, Inc., 100 E. North St., Kokomo, Ind.

Swift Ohio Corp., 800 S. Leighton, Kenton, O.
 Swirling Oil Burner Mfg. Corp., 105-20 New York Blvd., Jamaica 33, N. Y.
 Switson Industries Ltd., 201 Major St., Welland, Ont., Canada
 Synchronous Flame, Inc., Walworth, Wis.
 Syncromatic Corp., 1141 Tenth St., Watertown, Wis.
 Syral Mfg. Co., 511 N. State, Syracuse 3, N. Y.

T

TOT Towers Co., 5220 Lawndale, P. O. Box 18012 Houston 23, Tex.
 Tahlen Hammer Co., 1729 First Ave., S., Seattle 4, Wash.
 Tamms Industries Co., 228 N. LaSalle St., Chicago 1, Ill.
 Tankit Co., Inc., 560 Belmont Ave., Newark, N. J.
 Tannewitz Works, Inc., 315 Front Av., N. W., Grand Rapids 2, Mich.
 Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.
 Taylor-Winfield Corp., 1052 Mahoning Av., N. W., Warren, Ohio.
 Technical Filter Co., 2719 S. Poplar Ave., Chicago 8, Ill.
 Techniflex Corp., Port Jervis, N. Y.
 Tecumseh Products Co., Tecumseh, Mich.
 Tedco Cooling Towers Div., Engineering & Development Co., Inc., 2406 South 7th Blvd., St. Louis, Mo.
 Telechron, Inc., Ashland, Mass.
 Tel-Tru Mfg. Co., 408 St. Paul St., Rochester 3, N. Y.
 Temco, Inc., 4101 Park Av., Nashville 9, Tenn.
 Temperature Appliance Mfg. Corp., Box 281, Sebastopol, Calif.
 Temperature Control, Inc., P. O. Box 1042, 1570 Northside Dr., Atlanta, Ga.
 Tempromatic Corp., DeLand, Fla.
 Tennessee Coal & Iron Div., U. S. Steel Corp., Box 599, Fairfield, Ala.
 Tennessee Fabricating Co., 1490 Grimes, Memphis 6, Tenn.
 Tennessee Plastics, Inc., P. O. Box 3117, O. R. Branch, Johnson City, Tenn.
 Tennessee Products & Chemical Corp., 2611 West End Ave., Nashville 5, Tenn.
 Tenney Engineering Inc., 1090 Springfield Rd., Union, N. J.
 Terry Vap Co., 750 Pelham Blvd., St. Paul 14, Minn.
 Texas Instruments Inc., Metals & Controls Div., 43 Forest St., Attleboro, Mass.
 Texas Products Mfg. Co., 919 Taylor Ave., Waco, Tex.
 Tesco, Inc., 1403 E. 5th Court, Tulsa 20, Okla.
 Thatcher Furnace Co., Centre St., Garwood, N. J.
 Thermac Co., P. O. Box 775, Corona, Calif.
 Thermador Electrical Mfg. Co., Div. of Norris-Thermador Corp., 5119 District Blvd., Los Angeles 22, Calif.
 Therm-Air Mfg. Co., 1000 N. Division St., Peckskill, N. Y.
 Thermco Instrument Corp., U. S. 20, LaPorte, Ind.
 Thermex Engineering Co., 400 N. Oakley Blvd., Chicago 12, Ill.
 Therm Gas Generator Co., Inc., 2105 Westlake Ave., Seattle 1, Wash.
 Therm-O-Disc, Inc., S. Main St., P. O. Box 1538, Mansfield, O.
 Thermoid Div., H. K. Porter Co., Inc., 200 Whitehead Rd., Trenton 6, N. J.
 Therm Oil Burner Co., 2105 Westlake Ave., Seattle 1, Wash.
 Thermolok Mfg. Co., Inc., 1099 Tulip Ave., Franklin Sq., L.I., N.Y.
 Thermo-Products, Inc., North Judson, Ind.
 Thermotank, Inc., Air Products Div., 11191 Lappin Ave., Detroit 34, Mich.
 Therm-O-Wheel, Inc., 10-10 50th Ave., Long Island City 1, N. Y.
 Thomas Industries, Inc., Electric Sprayit Div., 1415 Illinois Ave., Sheboygan, Wis.
 Thompson Mfg. Co., A. F., 740 S. Lyons St., Tyler, Tex.
 Thompson & Co., 1085 Allegheny Av., Oakmont, Pa.
 Thompson Products, Inc., Valve Div., 1455 E. 185th St., Cleveland 10, O.
 Thompson & Sons Co., Henry G., 277 Chapel St., New Haven 5, Conn.
 Thompson & Sons, Inc., 8130 W. 47th St., Lyons, Ill.
 Thor Metal Products Co., Inc., Box 218 Eastwood Station, Syracuse 6, N. Y.
 Thor Power Tool Co., 175 N. State, Aurora, Ill.
 Thor Tool & Die Co., 865 Estabrook St., San Leandro, Calif.
 Tierney Rotor Ventilator Co., 239 4th Ave., S., Minneapolis, Minn.
 Tiffin Art Metal Co., The, 450 Wall St., Tiffin, O.
 Time Saver Tools, Inc., Mundelein, Ill.
 Time Tested Products Co., 1231 Peden, Houston 6, Tex.
 Timken Roller Bearing Co., The, 1835 Dueber Ave., S. W., Canton 6, Ohio.

Tinit Mfg. Co., Inc., 1635-39 Platte St., Denver 2, Colo.
 Tinnerman Corp., Geo. A., 19920 Ingersoll Dr., Cleveland 16, O.
 Titanium Metals Corp. of America, 233 Broadway, New York, N. Y.
 Titan Valve & Mfg. Co., 9913 Elk Av., Cleveland, Ohio.
 Titeflex, Inc., Hendee St., Springfield 4, Mass.
 Titus Mfg. Corp., Box 810, Highway 20 West, Waterloo, Iowa.
 Tjernlund Mfg. Co., 2140 Kasota St., St. Paul 14, Minn.
 Toledo Paint and Chemical Co., 33 Blucher St., Toledo, O.
 Tool Industries, Inc., 15438 Telegraph Rd., Detroit, Mich.
 Tool Products Corp., 377 Old Falls Blvd., North Tonawanda, N. Y.
 Topflight Corp., 160 E. 9th Ave., York, Pa.
 Toridheet Div., Cleveland Steel Products Corp., 16025 Brookpark Rd., Cleveland 35, O.
 Torit Mfg. Co., 1133 Rankin St., St. Paul 16, Minn.
 Torq Time Controls Inc., 1 Grove St., Mt. Vernon, N. Y.
 Torq Electric Corp., 1002 Interstate St., Bedford, Ohio.
 Torrington Mfg. Co., Torrington, Conn.
 Toungate & Coats, P. O. Box 9156, Austin 17, Tex.
 Townsend Co., Engineered Fasteners Div., P. O. Box 71, Ellwood City, Pa.
 Trade-Wind Div., Robbins & Myers, Inc., 7755 Paramount Pl., Rico Rivera, Calif.
 Trageser Copper Works, Inc., N. Y. International Airport (IDL), Jamaica 30, N. Y.
 Trane Co., The, LaCrosse, Wis.
 Travaco Laboratories, 233 Condor St., East Boston 28, Mass.
 Tremont Nail Co., Box 111, Wareham, Mass.
 Triad Products Corp., 5121 N. Clark St., Chicago 40, Ill.
 Triangle Engineering Co., P. O. Box 7464, Houston 8, Tex.
 Triangle Mfg. Co., 700 Division St., Oshkosh, Wis.
 Trindl Products, Ltd., 1807-11 S. Clark St., Chicago 16, Ill.
 Trion, Inc., 1000 Island Ave., McKees Rocks, Pa.
 Tri-Saw Corp., 2207 Hanley Industrial Court, St. Louis 17, Mo.
 Tri-State Heating Supply Inc., 218-236 Murray St., Fort Wayne, Ind.
 Tropic-Air Stoker Co., Box 236, Station A, Canton 5, Ohio.
 Tropical Paint Co., 1244-86 W. 70th St., Cleveland, Ohio.
 Truco Masonry Drilling, Wheel Tracing Co., 3200 W. Davison Ave., Detroit, Mich.
 Tru-Heat Co., 532 Miller Ave., Trenton 10, N. J.
 Truscon Div., Republic Steel Corp., Albert St., Youngstown 1, O.
 Truscon Laboratories, Caniff & Grand Trunk R. R., Detroit 11, Mich.
 Tube Manifold Corp., 415 Bryant St., North Tonawanda, N. Y.
 Tubenfin Coil Co., 220 Broadway, P. O. Box 5455, Houston 12, Tex.
 Tubular Rivet & Stud Co., Quincy 70, Mass.
 Tuck-Aire Furnace Co., 2045 Evans Ave., San Francisco 24, Calif.
 Tulsa Canvas Products Co., Inc., P. O. Box 2072, Tulsa, Okla.
 Turco Products, Inc., 24600 S. Main St., Wilmington, Calif.
 Turner & Seymour Mfg. Co., Lawton St., Torrington, Conn.
 Turner Corp., 821 Park Av., Sycamore, Ill.
 Tuthill Pump Co., 939 E. 95th St., Chicago 19, Ill.
 Tuttle & Bailey Div. of Allied Thermal Corp., 215 Warren St., New Britain, Conn.
 Tuttle & Co., H. W., 805 S. Evans, Tecumseh, Mich.
 Twin Control Burner Mfg. Co., 3240 Barker Ave., New York 67, N. Y.
 Tyler Mfg. Co., Inc., 1005 W. Arbor Vitae Ave., Inglewood 2, Calif.
 Typhoon Air Conditioning Co., Div. of Hupp Corp., 505 Carroll St., Brooklyn 15, N. Y.
 Typhoon Heat Pump Div., Hupp Corp., 2001 Garcia Ave., P. O. Box 1123, Tampa, Fla.

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U.S. Air Conditioning Corp., P. O. Box 360, Delaware, O.
 U.S. Aluminum Siding Corp., 10551 Anderson Pl., Franklin Park, Ill.
 U. S. Electrical Motors, Inc., 200 E. Slauson Av., Los Angeles, Calif.
 U. S. Expansion Bolt Co., P. O. Box 827, York, Pa.
 U. S. Pipe & Foundry Co., 3300 First Ave., N., Birmingham, Ala.
 U. S. Rock Wool Co., 220 West So. Temple, Salt Lake City 1, Utah
 Uehling Instrument Co., 473 Getty Av., Paterson 3, N. J.
 Ultralloy Corp., 53 W. Jackson Blvd., Room 521, Chicago 4, Ill.
 Unexcelled Chemical Corp., 350 5th Ave., New York 1, N. Y.

Union Asbestos & Rubber Co., Fibrous Products Div., 1111 W. Perry St., Bloomington, Ill.
 Union Carbide Chemicals Co., Div. Union Carbide Corp., 30 E. 42nd St., New York 17, N. Y.
 Union Carbide Plastics Co., Div. of Union Carbide Corp., 270 Park Ave., New York 17, N. Y.
 Union Dampener Co., The, Washington St., Union, Ill.
 Union Electric & Mfg. Co., 1057 Summit Ave., Jersey City 7.
 Union Mfg. Co., Inc., 6th & Washington Sts., Boyertown, Pa.
 Union Pump Co., Capitol Ave., S. W., Battle Creek, Mich.
 Union Sheet Metal Supply Co., Inc., 16722 Miles Ave., Cleveland, O.
 Union Steel Chest Corp., LeRoy, N. Y.
 Unique Mfg. Co., Inc., 221 W. Walton St., Chicago 10, Ill.
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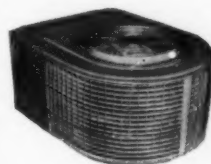
EK SERIES
Remote Air Cooled 2 thru 7.5 Tons
HEAT PUMPS and CONDENSING UNITS
capacity ARI Certified.



AIR HANDLER
2 thru 10 Tons Capacity
for use with Condensing
Units and Heat Pumps.
Auxiliary Electric Heat
Available.



EVAPORATORS
2 thru 7.5 Tons
with or without cabinets
for upflow, counterflow, or
horizontal application.



AK SERIES
Remote Air Cooled
2 thru 10 Tons
Distinctive Design for
Extra Capacity



HORIZONTAL GAS FURNACE
60,000-120,000 BTU
Our own design and
manufacture.
UNIQUE HEAT EXCHANGER
does not burn out.
SIZED FOR AIR
CONDITIONING



HI-LO FURNACE
58 Series
75,000-125,000 BTU
IDEAL SIZE FOR CLOSET
OR BASEMENT—only
53 inches tall



LO-BOY GAS FURNACE
Full Line,
80,000-200,000 BTU
Full Capacity.
SIZED FOR AIR CONDITIONING



FLOOR FURNACE
35,000-75,000 BTU
All Gases. Fifteen years
proven quality.



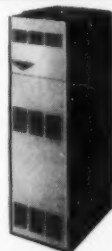
OIL HIBOY
84,000-140,000 BTU
HiBoy, Horizontal,
CounterFlo
SIZED FOR AIR
CONDITIONING



ELECTRIC FURNACE
63,000-126,000 BTU
Modular Construction
permits use as HiBoy,
CounterFlo, Horizontal,
or Air Handler



**AIR CONDITIONING
FURNACE SERIES A**
75,000-125,000 BTU
BUILT-IN EVAPORATOR SPACE
for 2 thru 5 H.P.



COUNTER-FLO GAS FURNACE
80,000-160,000 BTU
Hi-Style, full capacity
SIZED FOR AIR CONDITIONING



HIBOY GAS FURNACE
58 Series
80,000-160,000 BTU
Highly efficient
SIZED FOR AIR
CONDITIONING

HEATING

HEATWAVE

AIR CONDITIONING

A Subsidiary of
F. E. Myers & Bro. Co.
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Manufacturing Co.
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...in fewer callbacks and surer profits

"When I put a White-Rodgers fan and limit control on a job, they're in to stay. I know there won't be any expensive callbacks to cut into my profits. For over 20 years I've seen these controls perform where it counts ... on the job, so I don't ever worry.

"Now, White-Rodgers offers a fan and limit control to fit *any* job I have. They're interchangeable mounting-wise with other makes ... go on in minutes and last for years.

"On any equipment, new or old, I always insure my profits *completely* ... by using nothing but White-Rodgers fan and limit controls. You should, too."

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